## Yogoda Satsanga Palpara Mahavidyalaya

## Department of Computer Science Session:-2021-2022

## **TEACHING PLAN**

B Sc (General)

Semester	Paper	Unit/Module		Teacher	No. of lectu res	To be complete d by
Semester- 1	DSC1AT: Problem Solving using Computers	Computer Fundament als:	Introduction to Computers: Characteristics of Computers, Uses of computers, Types and generations of Computers. Basic Computer Organization - Units of a computer, CPU, ALU, memory hierarchy, registers, I/O devices.	Mr. Arnab Chakrabor ty (SACT)	40	1 <sup>st</sup> Month
		Planning the Computer Program:	Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.			1 <sup>st</sup> Month
		Techniques of Problem Solving:	Flowcharting, decision table, algorithms, Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming.			2 <sup>nd</sup> month
		Overview of Programmi ng:	Structure of a Python Program, Elements of Python			2 <sup>nd</sup> month
		Introductio n to Python:	Python Interpreter, Using Python as calculator, Python shell, Indentation. Atoms, Identifiers and keywords, Literals, Strings, Operators (Arithmetic operator, Relational operator, Logical or			3 <sup>rd</sup> month

	Creating Python Programs	Boolean operator, Assignment, Operator, Ternary operator, Bit wise operator, Increment or Decrement operator). Input and Output Statements, Control statements (Looping- while Loop, for Loop, Loop Control, Conditional Statement- ifelse, Difference between break, continue and pass).			3 <sup>rd</sup> month
	Structures	Numbers, Strings, Lists, Tuples, Dictionary, Date & Time, Modules, Defining Functions, Exit function, default arguments.			4 <sup>th</sup> Month
	Introductio n to Advanced Python:	Objects and Classes, Inheritance, Regular Expressions, Event Driven Programming, GUI Programming.			4 <sup>th</sup> month
DSC1AP: Software Lab using Python(Lab)	Section: A ( Simple programs)	1. Write a menu driven program to convert the given temperature from Fahrenheit to Celsius and vice versa depending upon user's choice.  2. WAP to calculate total marks, percentage and grade of a student. Marks obtained in each of the three subjects are to be input by the user.  3. Write a menu-driven program, using user-defined functions to find the area of rectangle, square, circle and triangle by accepting suitable input parameters from user.  4. WAP to display the first n terms of Fibonacci series.	Mr. Arnab Chakrabor ty (SACT)	40	1 <sup>st</sup> month And 2 <sup>nd</sup> month

		5. WAP to find factorial of	
		the given number.	
		C WAR to find sum of the	
		6. WAP to find sum of the following series for n	
		terms: 1 – 2/2! + 3/3!	
		- n/n! 7. WAP to calculate	
		the sum and product of	
		two compatible matrices.	
	Section: B	All the programs should be	3 <sup>rd</sup> month
	(Visual	written using user defined	And 4 <sup>th</sup>
	Python):	functions, wherever	month
	i y ciioiij.	possible.	Inonen
		possible.	
		1. Write a menu-driven	
		program to create	
		mathematical 3D objects I.	
		curve II. sphere III. cone IV.	
		arrow V. ring VI. Cylinder.	
		2. WAP to read n integers	
		and display them as a	
		histogram.	
		3. WAP to display sine,	
		cosine, polynomial and	
		exponential curves.	
		4. WAP to plot a graph of	
		people with pulse rate p vs.	
		height h. The values of p	
		and h are to be entered by	
		the user.	
		5. WAP to calculate the	
		mass m in a chemical	
		reaction. The mass m (in	
		gms) disintegrates	
		according to the formula m	
		= 60/(t+2), where t is the	
		time in hours. Sketch a	
		graph for t vs. m, where	
		t>=0.	
		6. Input initial velocity and	
		acceleration, and plot the	
		following graphs depicting	
		TOTOWING BLAPHS GEPICKING	

SEMESTE R-II	DSC1BT: Database Manageme nt Systems	Introducti on to Database Managem ent Systems:	equations of motion: I. velocity wrt time (v=u+at) II. distance wrt time ( s=u*t+0.5*a*t*t) III. distance wrt velocity ( s=(v*v-u*u)/2*a) Characteristics of database approach, data models, DBMS architecture and data independence.	Mrs. Sova Pal (Bera) (Associate Professor)	40	1 <sup>st</sup> month
		Entity Relationsh ip and Enhanced ER Modeling:	Entity types, relationships, SQL- 99:Schema Definition , constraints, and object modeling.			2 <sup>nd</sup> month
		Relational Data Model	Basic concepts, relational constraints, relational algebra, SQL queries.			3 <sup>rd</sup> month
		Database design:	ER and EER to relational mapping, functional dependencies, normal forms up to third normal form.			4 <sup>th</sup> month
	DSC1BP: Software Lab based on Database Manageme nt Systems (Lab)	DDL Command s	Create table, alter table, drop table	Mrs. Sova Pal (Bera) (Associate Professor)	40	1 <sup>st</sup> month
		DML Command s	<ul> <li>Select, update, delete, insert statements</li> <li>Condition specification using Boolean and comparison operators (and, or, not,=,&lt;&gt;,&gt;,&lt;,&gt;=,&lt;=)</li> <li>Arithmetic operators and aggregate functions(Count, sum, avg, Min, Max)</li> <li>Multiple table queries</li> </ul>			1 <sup>st</sup> month And 2 <sup>nd</sup> month

(join on different an same tables)  • Nested select statements  • Set manipulation usin (any, in, contains, all, no in, not contains, exists, no exists, union, intersee minus, etc.)  • Categorization usin group byhaving  • Arranging using order b  DQL  1. Display all the detail of all employees workin in the company.  2. Display ssn, lname finame, address of employees who work in department no 7.  3. Retrieve the birthdat and address of the employee whose name in 'Franklin T. Wong'  4. Retrieve the name an salary of every employee  5. Retrieve all distinct salary values  6. Retrieve all employee names whose address is in 'Bellaire'  7. Retrieve all employee who were born during the 1950s  8. Retrieve all employee in department 5 whose salary is between 50,00 and 60,000(inclusive)  9. Retrieve the names of	g to
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			10. Retrieve SSN and department name for all employees			
			11. Retrieve the name and address of all employees who work for the 'Research' department			
			12. For every project located in 'Stafford', list the project number, the controlling department number, and the department manager's last name, address, and birthdate.			
			13. For each employee, retrieve the employee's name, and the name of his or her immediate supervisor.			
			14. Retrieve all combinations of Employee Name and Department Name			
			15. Make a list of all project numbers for projects that involve an employee whose last name is 'Narayan' either as a worker or as a manager of the department that controls the project			
SEMESTE R-III	DSC1CT: Operating Systems	Introducti on	System Software, Resource Abstraction, OS strategies	Mrs. Sova Pal (Bera) (Associate Professor)	40	1 <sup>st</sup> month
		Types of operating systems	Multiprogramming, Batch, Time Sharing, Single user and Multiuser, Process Control & Real Time Systems.			1 <sup>st</sup> month

Operating System Organizati on	Factors in operating system design, basic OS functions, implementation consideration; process modes, methods of requesting system services – system calls and system programs.	2 <sup>nd</sup> month
Process Managem ent	System view of the process and resources, initiating the OS, process address space, process abstraction, resource abstraction, process hierarchy, Thread model	3 <sup>rd</sup> month
Scheduling		3 <sup>rd</sup> month
Memory Managem ent	Mapping address space to memory space, memory allocation strategies, fixed partition, variable partition, paging, virtual memory	4 <sup>th</sup> month
Shell introducti on and Shell Scripting	<ul> <li>➤ What is shell and various type of shell, Various editors present in linux</li> <li>➤ Different modes of operation in vi editor</li> <li>➤ What is shell script, Writing and executing the shell script</li> <li>➤ Shell variable (user defined and system variables)</li> <li>➤ System calls, Using system calls</li> </ul>	4 <sup>th</sup> month

display the multiplication table any number,	
11. Write a shell script to compare two files and if found equal asks the user to delete the duplicate file.	
12. Write a shell script to find the sum of digits of a given number.	
13. Write a shell script to merge the contents of three files, sort the contents and then display them page by page.	
14. Write a shell script to find the LCD (least common divisor) of two numbers.	
15. Write a shell script to perform the tasks of basic calculator.	
16. Write a shell script to find the power of a given number.	
17. Write a shell script to find the factorial of a given number.	
18. Write a shell script to check whether the number is Armstrong or not.	
19. Write a shell script to check whether the file have all the permissions or not.	
20. Program to show the pyramid of special character "*".	

SEC1T: HTML Programmin g	Unit-I	Introduction	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month
	Unit-II: The Basics	The Head, the Body, Colors, Attributes, Lists, ordered and unordered			1 <sup>st</sup> month
	Unit-III: Links	Introduction Relative Links, Absolute Links, Link Attributes, Using the ID Attribute to Link Within a Document.			2 <sup>nd</sup> month
	Unit-IV: Images	Putting an Image on a Page Using Images as Links, Putting an Image in the Background			2 <sup>nd</sup> month
	Unit V: Tables	Creating a Table Table Headers, Captions, Spanning Multiple Columns, Styling Table			3 <sup>rd</sup> month
	Unit VI: Forms	Basic Input and Attributes Other Kinds of Inputs, Styling forms with CSS, Where To Go From Here			4 <sup>th</sup> month
SEC1P: Software Lab Based on HTML	The Basics	Q.1 Create an HTML document with the following formatting options:  1. Bold 2. Italics 3. Underline 4. Headings (Using H1 to H6 heading styles) 5. Font (Type, Size and Color) 6. Background (Colored background/Image in background) 7. Paragraph 8. Line Break 9. Horizontal Rule 10. Pre tag	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month

Lists Q.2 Create an HTML	1 <sup>st</sup> month
document which consists	
of:	
I. Ordered List	
II. Unordered List	
III. Nested List	a nd
Images Putting an Image on a Page	2 <sup>nd</sup>
Using Images as Links,	month
Putting an Image in the	
Background	rd
Tables Creating a Table Table	3 <sup>rd</sup> month
Headers,	
Captions, Spanning Multiple	
Columns, Styling Table	Al-
Forms Basic Input and Attributes	4 <sup>th</sup> month
Other Kinds of Inputs,	
Styling forms with	
CSS,Where To Go From	
Here	
frame Create HTML documents	4 <sup>th</sup> month
(having multiple frames) .	
	Arnab 30 1 <sup>st</sup> Month
-IV Computer Electronics Logic gates, boolean Cha	krabor And
System algebra, combinational ty (	SACT) 2 <sup>nd</sup> month
Architecture circuits, circuit	
simplification, flip-flops	
and sequential circuits,	
decoders, multiplexers,	
registers, counters and	
memory units.	
2. Data Representation and	3 <sup>rd</sup> month
Basic Computer Arithmetic	And
Basic compared Antimical	4 <sup>th</sup> Month
Computer Basic Computer	1 <sup>st</sup> Month
Architectu Organization and Design	
re	
Central Processing Unit Mr.	30 2 <sup>nd</sup> month
Sun	
Mor	
	sistant
	essor)
	C5501)
Memory Organization	3 <sup>rd</sup> month

		Input-Output Organization			4 <sup>th</sup> Month
DSC1DP: Computer System Architecture Lab	Digital Experimen t	<ol> <li>Design and implement         a full adder circuit using         NAND gates only.</li> <li>Design and implement         a J. K. flip-flop.</li> <li>Design and implement         a 4 bit adder using flip-</li> </ol>	Mr. Arnab Chakrabor ty (SACT)	30	1 <sup>st</sup> Month
		flop.  4. Design and implement a 4 bit synchronous counter. 5. Design and implement a 8:1 multiplexer. 6. Design and implement a D flip-flop.			2 <sup>nd</sup> month
		7. Design and implement a half subtractor using NAND gates only. 8. Design and implement a 3×8 decoder. 9. Design and implement a 8 bit parity generator. 10. Design and implement a two bit digital comparator.			3 <sup>rd</sup> month And 4 <sup>th</sup> Month
	Computer Architectu re	Basic Computer Organization and Design			1 <sup>st</sup> Month
		Central Processing Unit	Mr. Suman Mondal (Assistant Professor)	30	2 <sup>nd</sup> month
		Memory Organization			3 <sup>rd</sup> month
		Input-Output Organization			4 <sup>th</sup> Month

SEC2T: PHP Programmin g	Introductio n to PHP:	PHP introduction, inventions and versions, important tools and software requirements (like Web Server, Database, Editors etc.) PHP with other technologies, scope of PHP PHP Operators: Arithmetic, Assignment, Relational, Logical operators, Bitwise, ternary and MOD operator.	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month
	Handling HTML form with PHP	1.Capturing Form Data 2. Dealing with multi value fields 3. GET and POST form methods 4.Redirecting a form after submission			1 <sup>st</sup> month
	PHP conditional events and Loops:	PHP IF Else conditional statements ( Nested IF and Else) Switch case, while ,For and Do While Loop, Goto , Break ,Continue and exit.			2 <sup>nd</sup> month
	PHP Functions:	Function, Need of Function , declaration and calling of a function PHP Function with arguments, Default Arguments in Function, Function argument with call by value, call by reference, Scope of Function Global and Local			3 <sup>rd</sup> month
	String Manipulati on and Regular Expression:	Creating and accessing String, Searching & Replacing String Formatting, joining and splitting String, String Related Library functions, Use and advantage of regular expression over inbuilt function, Use of preg_match(),			3 <sup>rd</sup> month

	Array:	preg_replace(), preg_split() functions in regular expression Anatomy of an Array			4 <sup>th</sup> month
	Allay.	,Creating index based and Associative array ,Accessing array Looping with Index based array, with associative array using each() and foreach(),Some useful Library function			
SEC2P: PHP Programmin g (Lab)	Software Lab Based on PHP:	1. Create a PHP page using functions for comparing three integers and print the largest number.  2. Write a function to calculate the factorial of a number (non-negative integer). The function accept the number as an argument.  3. WAP to check whether the given number is prime or not.  4. Create a PHP page which accepts string from user. After submission that page displays the reverse of provided string.  5. Write a PHP function that checks if a string is all lower case.  6. Write a PHP script that checks whether a passed string is palindrome or not? (A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run)  7. WAP to sort an array.	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month And 2 <sup>nd</sup> month And 3 <sup>rd</sup> month And 4 <sup>th</sup> month

8. Write a PHP script that	
removes the whitespaces	
-	
from a string. Sample string	
: 'The quick " " brown fox'	
Expected Output :	
Thequick""brownfox	
·	
9. Write a PHP script that	
finds out the sum of first n	
odd numbers.	
10. Create a login page	
having user name and	
_	
password. On clicking	
submit, a welcome	
message should be	
displayed if the user is	
already registered	
(i.e.name is present in the	
•	
database) otherwise error	
message should be	
displayed.	
11. Write a PHP script that	
checks if a string contains	
_	
another string.	
12. Create a simple	
'birthday countdown'	
script, the script will count	
the number of days	
-	
between current day and	
birth day	
13. Using switch case and	
dropdown list display a	
"Hello" message depending	
on the language selected in	
drop down list.	
14. Write a PHP program to	
print Fibonacci series using	
-	
recursion.	
15. Write a PHP script to	
replace the first 'the' of the	
following string with 'That'.	
ionowing string with That.	

SEMESTER	DSE1T:	Introductio	Features of Java, JDK	Mr. Arnab	40	1 <sup>st</sup> month
-V	Programmin g in Java	n to Java:	Environment	Chakrabor ty (SACT)		
		Object Oriented Programmi ng Concept	Overview of Programming, Paradigm, Classes, Abstraction, Encapsulation, Inheritance, Polymorphism, Difference between C++ and JAVA			1 <sup>st</sup> month
		Java Programmi ng Fundament al:	Structure of java program, Data types, Variables, Operators, Keywords, Naming Convention, Decision Making (if, switch),Looping(for, while) ,Type Casting			2 <sup>nd</sup> month
		Classes and Objects:	Creating Classes and objects, Memory allocation for objects, Constructor, Implementation of Inheritance, Implementation of Polymorphism, Method Overloading, Method Overriding, Nested and Inner classes			2 <sup>nd</sup> month
		Arrays and Strings:	Arrays, Creating an array, Types of Arrays, String class Methods, String Buffer methods.			3 <sup>rd</sup> month
		Abstract Class, Interface and Packages:	Modifiers and Access Control, Abstract classes and methods, Interfaces, Packages Concept, Creating user defined packages.			3 <sup>rd</sup> month
		Exception Handling:	Exception types, Using try catch and multiple catch, Nested try, throw, throws and finally, Creating User defined Exceptions.			3 <sup>rd</sup> month
		File Handling:	Byte Stream, Character Stream, File IO Basics, File Operations, Creating file, Reading file, Writing File Introduction, Types Applet,			4 <sup>th</sup> month

	Programmi	Applet Life cycle, Creating			
DSE1P:	ng: Practical	Applet, Applet tag  1. WAP to find the largest	Mr. Arnab	40	1 <sup>st</sup> month
Software	Practical	of n natural numbers.	Chakrabor	40	And 2 <sup>nd</sup>
Lab based		of it flatural fluffibers.			
		2 MAD to find whather a	ty (SACT)		month
on Java		2. WAP to find whether a			And 3 <sup>rd</sup> month
(Lab)		given number is prime or			
		not.			And 4 <sup>th</sup>
					month
		3. Write a menu driven			
		program for following:			
		a. Display a Fibonacci			
		series			
		b. Compute Factorial of a			
		number			
		c. WAP to check whether a			
		given number is odd or			
		even.			
		d. WAP to check whether a			
		given string is palindrome			
		or not.			
		4. WAP to print the sum			
		and product of digits of an			
		Integer and reverse the			
		Integer.			
		5. Write a program to			
		create an array of 10			
		integers. Accept values			
		from the user in that array.			
		Input another number			
		from the user and find out			
		how many numbers are			
		equal to the number			
		passed, how many are			
		greater and how many are			
		less than the number			
		passed.			
		C Multo a mag access that "			
		6. Write a program that will			
		prompt the user for a list of			
		5 prices. Compute the			
		average of the prices and			
		find out all the prices that			
		are higher than the			
		calculated average.			

7. Write a program in java to input N numbers in an array and print out the Armstrong numbers from the set.	
8. Write java program for the following matrix operations: a. Addition of two matrices b. Summation of two matrices c. Transpose of a matrix d. Input the elements of matrices from user.	
9. Write a java program that computes the area of a circle, rectangle and a Cylinder using function overloading.	
10. Write a Java for the implementation of Multiple inheritance using interfaces to calculate the area of a rectangle and triangle.	
11. Write a java program to create a frame window in an Applet. Display your name, address and qualification in the frame window.	
12. Write a java program to draw a line between two coordinates in a window.	
13. Write a java program to display the following graphics in an applet window.	
a. Rectangles b. Circles c. Ellipses d. Arcs	

		e. Polygons			
		e. Polygons  14. Write a program that reads two integer numbers for the variables a and b. If any other character except number (0-9) is entered then the error is caught by NumberFormatException object. After that ex.getMessage() prints the information about the error occurring causes.  15. Write a program for the following string operations: a. Compare two strings b. Concatenate two strings c. Compute length of a string  16. Create a class called Fraction that can be used to represent the ratio of two integers. Include appropriate constructors and methods. If the denominator becomes zero, throw and handle an			
SEC3T: Programmi g with Matlab	MATLAB in Basics	exception.  The MATLAB environment - Basic computer programming - Variables and constants, operators and simple calculations - Formulas and functions - MATLAB toolboxes	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month
	Matrices and vectors	Matrix and linear algebra review - Vectors and matrices in MATLAB - Matrix operations and functions in MATLAB			2 <sup>nd</sup> month
	Computer programmi ng	Algorithms and structures - MATLAB scripts and functions (m-files) - Simple sequential algorithms - Control structures			3 <sup>rd</sup> month
	MATLAB programmi	Matlab Programming. Reading and writing data,			4 <sup>th</sup> month

	ng and Numerical Simulations	file handling - Personalized functions - Toolbox structure - MATLAB graphic functions. Numerical simulations. Numerical methods and simulations - Random number generation – Monte carlo methods			
SEC3P: Programmi g with Matlab(Lab	ng	1. A supermarket conveyor belt holds an array of groceries. The price of each product (in pounds) is [ 0.6, 1.2, 0.5, 1.3 ]; while the numbers of each product are [ 3, 2, 1, 5 ]. Use MATLAB to calculate the total bill.  2. The sortrows(x) function will sort a vector or matrix X into increasing row order. Use this function to sort a list of names into alphabetical order.  3. The —identity   matrix is a square matrix that has ones on the diagonal and zeros elsewhere. You can generate one with the eye() function in MATLAB. Use MATLAB to find a matrix B, such that when multiplied by matrix A=[ 1 2; -1 0 ] the identity matrix I=[ 1 0; 0 1 ] is generated. That is A*B=I.  4. Create an array of N numbers. Now find a single MATLAB statement that picks out from that array the 1,4,9,16,,VNth entries, i.e. those numbers which have indices that are square numbers.	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month And 2 <sup>nd</sup> month

5. Draw a graph that joins the points (0,1), (4,3), (2,0) and (5,-2).	, pd
6. Calculate and replay 1 second of a sinewave at 500Hz with a sampling rate of 11025Hz. Save the sound to a file called "ex35.wav". Plot the first 100 samples.	3 <sup>rd</sup> month And 4 <sup>th</sup> month
7. Calculate and replay a 2 second chirp. That is, a sinusoid that steadily increases in frequency with time, from say 250Hz at the start to 1000Hz at the end.	
8. Build a square wave by adding together 10 odd harmonics: 1f, 3f, 5f, etc. The amplitude of the nth harmonic should be 1/n. Display a graph of one cycle of the result superimposed on the individual harmonics.	
9. Write a function called FtoC (ftoc.m) to convert Fahrenheit temperatures into Celsius. Make sure the program has a title comment and a help page. Test from the command window with: i. FtoC(96) ii. lookfor Fahrenheit iii. help FtoC	
10. Write a program to input 2 strings from the user and to print out (i) the concatenation of the two strings with a space between them, (ii) a line of asterisks the same length	

			as the concatenated			
			strings, and (iii) the reversed concatenation. For example: i. Enter string 1: Mark ii. Enter string 2: Huckvale iii. Mark Huckvale			
			iv. ********** v. elavkcuHkraM			
SEMESTER -VI	DSE-2: Project Work		The students will be allowed to work on any project based on the concepts studied in core/elective or skill based elective courses. Theory classes will cover project management techniques.	Mrs. Sova Pal (Bera) (Associate Professor) , Mr. Suman Mondal (Assistant Professor), Mr. Arnab Chakrabor ty (SACT)	40	1 <sup>st</sup> month And 2 <sup>nd</sup> month And 3 <sup>rd</sup> month And 4 <sup>th</sup> month
	SEC4T: R- Programmin g	Introductio n	Overview and History of R, Getting Help, Data Types, Subsetting, Vectorized Operations, Reading and Writing Data.	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month And 2 <sup>nd</sup> month
			Control Structures, Functions, lapply, tapply, split, mapply, apply, Coding Standards.			3 <sup>rd</sup> month
			Scoping Rules, Debugging Tools, Simulation, R Profiler.			4 <sup>th</sup> month
	SEC4P: R- Programmin g (Lab)	Software Lab Based on R Programmi ng	<ol> <li>Write a program that prints 'Hello World' to the screen.</li> <li>Write a program that asks the user for a number n and prints the sum of the numbers 1 to n</li> </ol>	Mr. Suman Mondal (Assistant Professor)	40	1 <sup>st</sup> month And 2 <sup>nd</sup> month And 3 <sup>rd</sup> month And 4 <sup>th</sup> month
			<ul><li>3. Write a program that prints a multiplication table for numbers up to 12.</li><li>4. Write a function that returns the largest element</li></ul>			

in a list.	
5. Write a function that computes the running total of a list.	
6. Write a function that tests whether a string is a palindrome.	
7. Implement the following sorting algorithms: Selection sort, Insertion sort, Bubble Sort	
8. Implement linear search.	
9. Implement binary search.	
10. Implement matrices addition, subtraction and Multiplication	