

SVKM's NMIMS

Mukesh Patel School of Technology Management & Engineering / School of Technology Management & Engineering

B. Tech/MBA Tech	Lab and Workbook	Academic Year- 2024-25
Year:-First	Subject:- Programming for Problem Solving	Semester:- First

Experiment: 2

PART B

(PART A: TO BE COMPLETED AND SUBMITTED BY STUDENTS)

Students must execute all the programs, write executed code in the workbook, and submit part B of experiment 2 on the student portal. The filename should be PPS_batch_rollno_experimentno. Example: PPS_A1_A001_P1

Aim: Implementing various programs using operators, expressions and input/output operations

	Tasks:
1.	Write a program to initialize your details like age, name, gender, city, height etc
	and display it. (for name & city use character array ex. char name [20])
2.	Write a program to read your details like age, name, gender, city, height etc and
	display it.
3.	Write a program to exchange values of two variables without using 3 rd variable
4.	Given the value of x, y, and z. Write a program to rotate their values such that x
	has value of y, y has value of z and z has value of x.
5.	Write a program to find area & perimeter of a circle
6.	Write a program to calculate simple interest.
7.	Write a program to convert temperature in Celsius to Fahrenheit.
8.	A four-digit number is inputted through the keyboard. Write a program to calculate
	sum of digits of a number.
9.	A four-digit number is inputted through the keyboard. Write a program to reverse
	the number.
10.	Write a program to find largest of two numbers using ternary operator.
11.	If the length of three sides of a triangle is input through the keyboard, write a
	program to find the area of triangle and check whether the triangle is valid or not
	using conditional operator. Hint: - A triangle is valid if the sum of its two sides is
	greater than the third side.
12.	Write a program to calculate compound interest.
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Executed Code, Input and Output

1.	Write a program to initialize your details like age, name, gender, city, height etc and display it. (for name & city use character array ex. char name [20])	
Executed		
	e executed code here	
// Taste the	o Accuted Code Here	
Innut Out		
Input Out	•	
// Paste the	e input/output of executed code	
2.	Write a program to read your details like age, name, gender, city, height etc and	
	display it.	
Executed	Code: -	
// Paste the	e executed code here	
Input Out	mut.	
_	-	
// Paste the	e input/output of executed code	
_		
3.	Write a program to exchange values of two variables without using 3 rd variable	
Executed		
// Paste the	e executed code here	
Input Output: -		
// Paste the input/output of executed code		
4.	Given the value of x, y, and z. Write a program to rotate their values such that x	
	has value of y, y has value of z and z has value of x.	
Executed	Code: -	

SVKMS NMIMS NMIMS Present up by UNIVERSITY

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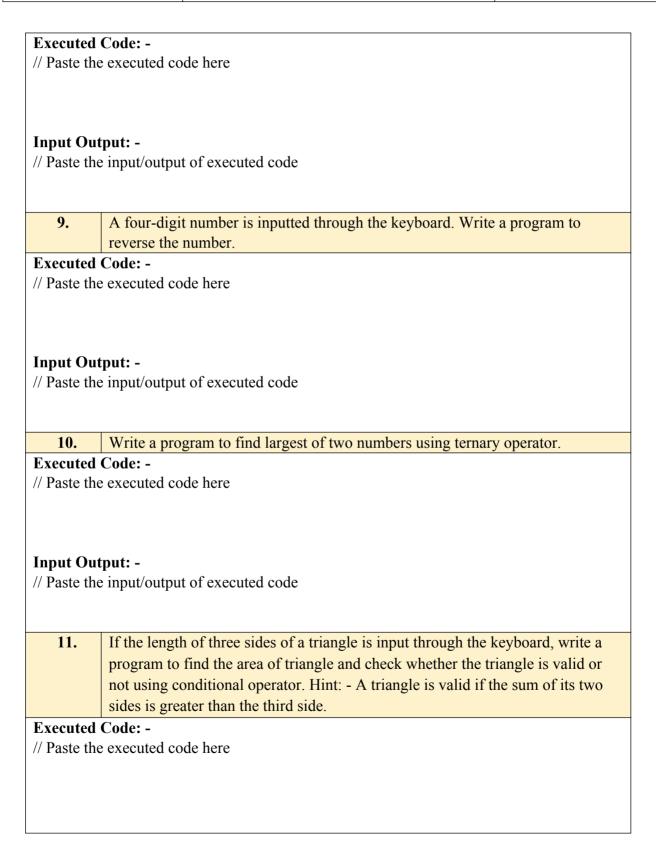
// D / 1	
// Paste th	e executed code here
Input Ou	tnut· -
_	e input/output of executed code
,,, = 1,212	
5.	Write a program to find area & perimeter of a circle
Executed	Code: -
// Paste th	e executed code here
1	
Input Ou	•
// Paste th	e input/output of executed code
6.	Write a program to calculate simple interest.
Executed	
	e executed code here
Input Ou	•
// Paste th	e input/output of executed code
7	Write a program to convert temperature in Celsius to Fahrenheit.
7. Executed	
1	e executed code here
// I aste th	e executed code here
Input Ou	tput: -
// Paste th	e input/output of executed code
8.	A four-digit number is inputted through the keyboard. Write a program to
	calculate sum of digits of a number.

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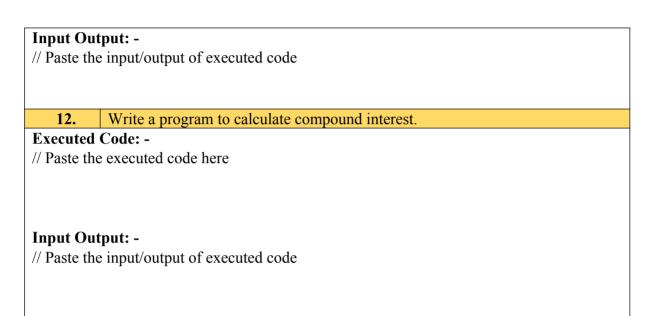


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Observation and Learning: -

Write your observation and learning

Question of Curiosity

ΓTο

be	answered by student based on the practical performed and learning/observations]
1.	Convert Following Mathematical Equations to programming equivalent statement
	a.
	b.
	c.
	d.
	e.
	f. r=
	g.
	h.
	i.
	j.