VIMAL JYOTHI
ENGINEERING COLLEGE (AUTONOMOUS)
Jyothi Nagar, Chemperi - 670632, Kannur D.T, Kerala

An ISO 9001 : 2015 Certified Institution

Assignment No	**Assignment 1**	Year/Semester	**Third Year - VIth Semester**
Subject	**CST362-PROGRAMMING IN PYTHON**	Branch	**CSE**
Issue Date	**2026-01-09 09:32:44**	Maximum Mark	**15**

Instructions to students

Sl.No	Batch	Q.No
1	Roll No. 1-5	1
2	Roll No. 6-10	2
3	Roll No. 11-15	3
4	Roll No. 16-20	4
5	Roll No. 21-25	5
6	Roll No. 26-30	6
7	Roll No. 31-35	7
8	Roll No. 36-40	8
9	Roll No. 41-45	9
10	Roll No. 46-50	10
11	Roll No. 51-55	11
12	Roll No. 56-63	12

Answer Any One Question(s)

Q No.	Questions	Marks	CO	Level

1.	a) Write a Python program to construct the following pattern in the figure, using a nested for loop.
	b) Write a Python program to find the average of 10 numbers using while loop.
	c) Write a Python program to display the sum of n numbers using a list.
	
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		15	CO1,CO2,CO3	L3

2.	a) Write a Python program to convert the temperature in degree centigrade to Fahrenheit. b) Write a Python script to create a new dictionary by concatenating two dictionaries. c) Write a Python program to get a list of colors and display the first and last color from the list.	15	CO1,CO2,CO3	L3
3.	a) Write a Python program that reads two integers representing a month and day and prints the season for that month and day. b) Write a Python program to remove the nth index character from a non-empty string. c) Write a Python script to check whether a particular key exists in a dictionary or not.	15	CO1,CO2,CO3	L3

4.	a) Write a Python program to generate the prime numbers from 1 to N.
	b) Write a Python program to find the odd numbers in an array.
	c) Write a Python program to print alphabet pattern 'T' in figure.
	
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		15	CO1,CO2,CO3	L3

5.	a) Write a Python program to find the roots of a quadratic equation. b) Write a Python program to find the Nth term in a Fibonacci series using recursion. c) Write a Python code to determine whether the given string is a Palindrome or not using slicing. Do not use any string function.	15	CO1,CO2,CO3	L3
6.	a) Write a Python program to display the given integer in a reverse manner. b) Write a Python program to get a string and change all occurrences of its first character to '$', except the first character itself. c) Write a Python program to find the largest number in a list without using built-in functions.	15	CO1,CO2,CO3	L3

7.	a) Write a Python program to find the sum of the digits of an integer using a while loop.
	b) Write a Python program to implement linear search using List.
	c) Write a Python program to print alphabet pattern 'L'.
	
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8.	a) Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included). b) Write a Python program to find the factorial of a number using recursion. c) Write a Python program to insert a number to any position in a list.	15	CO1,CO2,CO3	L3
9.	a) Write a Python program to find numbers between 100 and 400 (both included) where each digit of a number is an even number. The numbers obtained should be printed in a comma-separated sequence. b) Write a Python program to print the calendar of any year. c) Write a Python program to implement matrix addition.	15	CO1,CO2,CO3	L3

10.	a) Write a Python program to display the given integer in a reverse manner. b) Write a Python script that gets input from the user and displays that input in upper and lower cases. c) Write a Python program to implement matrix multiplication.	15	CO1,CO2,CO3	L3
11.	a) Write a python program to generate the following type of pattern for the given N rows. 1 1 2 1 2 3 1 2 3 4 b) Write a Python program to check leap year. c) Write a Python program to find the factorial of a number using recursion.	15	CO1,CO2,CO3	L3
12.	a) Write a Python program that prints all the numbers from 0 to 6 except 3 and 6. b) Write a Python script to print a dictionary where the keys are numbers between m and n and the values are the square of keys. c) Write a Python program to delete an element from a list by index.	15	CO1,CO2,CO3	L3

CO1:   Write, test and debug Python programs.

*Level: Knowledge level based on Blooms Taxonomy
[L3.Applying(P)]