GUJARAT TECHNOLOGICAL UNIVERSITY
MASTERS IN COMPUTER APPLICATION
Year – I (Semester – I) (W.E.F. JULY 2017)

Subject Name: Fundamentals of Programming – I

Subject Name: 3610001

Practical List

1	Write a Program to Print "Hello World!"
2	Write a program to print Name , Address and Birth Date.
3	Write a program to add, multiply and divide two integers and float numbers.
4	Write a program to convert Rupees(float) to paisa(int).
5	Write a Program to swap two numbers using temporary variable.
6	Write a Program to swap two numbers without temporary variable.
7	Write a Program to check whether given Number is an odd or Even Number
8	Write a Program tofind maximum number from user entered 3 numbers.
9	Write a Program to Implement Simple Calculator operation on given two input integers.
10	Write a Program to check whether given Number is a Prime Number or not?
11	Write a Program to check whether given Number is a Perfect Number or Not?

12	Write a Program to implement Number system conversion
	Create Menu
	    1 Decimal to Binary
	    2 Decimal to Octal
	    3 Decimal to Hexa
	    4 Exit

13	Write aprogram to convert octal to binarynumber.
14	Write a Program to display series 1 4 9 16 …n (using all looping controls)
15	Write a Program to display multiplication table for given number.
16	Write a Program tofind first N Fibonacci numbers.
17	Write a Program tofind Factorial for given Number
18	Write a Program toconvertfromFahrenheittocentigrade.(Theformulafor conversion: C= (5/9) * (F -32))

19	Writeaprogramtoprintthedigitpyramid(reverse) ofnlinesasshownbelow.
	Exampleis forn=5.
	        123454321
	         1234321
	          12321
	           121
	            1

20	Write a program to find sum of first N odd numbers
21	Write a program to find first N prime numbers
22	Write aprogram to perform addition and subtraction on mXn matrix.
23	Writeaprogramto.Writeafunctionthatcalculatesthesumandaverageofthe arraysent as anargument.

24	Write a program to add two matrices.
25	Write a program to find string length
26	Writeaprogramthatsortthearraysentasanargument.Providemenutosort arrayinascendingand descending.
27	Write a program thatreadsandmergetwosortedarraystogiveasinglesorted array.
28	Write a programthattakesfewarrayelementsfromuserandthendisplaythe menu to find smallest, largest, average and summation of allthe numbers.
29	Write a programtoupdateanddeleteanelementatdesiredpositioninan array.
30	Write a program to print size of int, float, double variable
31	Write a program that will read a text and count all occurrences of a particular Word
32	Write a program that appends the one string to another string
33	WriteaprogramtoreverseagivenString(oneword)andfindfrequencyof Characters found in it.
34	Write a program that finds a given word in a string.
35	Write a function prime that returns 1 if its argument is a prime no. and returns 0 Otherwise
36	Anumberisspecialifitisdivisibleby15.Anumberisbigifitisgreaterthan 999.Anumberisweirdifitisdivisibleby5and6butnot18.Anumberis scaryifitisbigorweird.Writeaprogramtocheckwhichofthenumbers450, 540, 600 and 675 arespecial but notscary.
37	WriteaCprogramtoreadinathreedigitnumber,andproducefollowing output(assumingthat theinputis 347). 3 hundreds 4 tens 7 units
38	Write a Program tofind sum of digitof 3digitnumber.
39	Write a program to reverse given number and check whether it is a Palindrome or not?
40	Write a program to reverse given String and check whether it is a Palindrome or not?
41	Write a program to count number of spaces, comma, lines, words and characters in a given string.
42	Write a program to count number of vowels in a given string.
43	Writeaprogramtoprintalldigitsofanintegernumberintowords.Usean arrayof10stringstostore10digitsinwords.Ex.Fori/p1985,o/pshouldbe OneNineEight Five.
44	WriteaprogramthatacceptName,Department,basic,HRA,andconveyance from the userand calculate total salary.Print salaryslip. DA=35%ofBasic Deductions: Medical :Rs.150 , PF: 10% ofBasic+DA,IT : 20%
45	Write an algorithm toaccept string (oneword)from user and displaytriangle. e.g.INDIAwilldisplayTriangle as below I IN IND INDI INDIA

Note: Implement Practical#20 onwards using functions and different types of calling parameters (if any).