

F.Y.B.C.A. (Sem I)

Computer Programming & Programming Methodology Lab Assignment #1

- Write a program to take input of name, rollno and marks obtained by a student in 4 subjects of 100 marks each and display the name, rollno with percentage score secured.
- 2. Write a program to find GCD (greatest common divisor or HCF) and LCM (least common multiple) of two numbers.
- 3. Write a Program to Check Whether a Number is Prime or not.

Input: n=7

Output: 7 is Prime No.

- 4. Write a program to check whether the entered year is leap year or not (a year is leap if it is divisible by 4 and divisible by 100 or 400.)
- 5. Write a program to find the factorial of a number.
- 6. Write a program to check number is Armstrong or not.

Hint: 153=1^3+5^3+3^3

- 7. Write a program to check whether a date is valid or not.
- 8. Write a program to check whether the number is palindrome or not.

Hint: 151

9. Write a program to generate following Fibonacci series:

Input n=5

Output: 0, 1, 1,2,3,5

10. Write a program to generate following series:

Input n=4

Output: 1,9,36,100

11. Write a program to generate following series:

Input n=4

Output: 1, 2, 6, 24

Note: Submission Date will be declare later.

Prof. Krishna Khandwala Prof. Brijal Panwala



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Computer Programming & Programming Methodology Lab Assignment #2

- 1. Write a program that will display large & small number from 1-D array.
- 2. Write a program that will search an element in 1- D array & if it is found than display the position of it in the array.
- 3. Write a program that will merge two 1-D arrays into single & display the resultant array in ascending order.
- 4. Write a program that will perform addition and multiplication operation on 2-D (multi-dimensional or matrix) array.
- 5. Write a program that will perform transpose of matrix.
- 6. Write a program to find the total number of vowels, consonants, uppercase letters, lower , number and special characters in a given string.

Note: Do not use any library function

7. Write a program to print following string pattern.

For example, Input: str="HELLO"

Output:

HELLOHELLO	
HELL	ELLO
HEL	LLO
HE	LO
H	O

- 8. Write a program that will perform following menu driven program for string.
 - i. Reverse the string
 - ii. Find length of the string
 - iii. Find a substring from the given string
 - iv. Contact two strings.

Note: Do not use any library function

9. Write a program that will check whether inputted string is palindrome or not.

For example, Input: str="madam" **Output:** string is palindrome.

- 10. Write a program to count the number of occurrences of a character in inputted sentence.
- 11. Write a program to add two numbers using pointers.
- 12. Write a program to find the sum of all the elements of an array using pointers.

Note:

- Submission Date will be declare later.
- No late Submission will be accepted.

Prof. Krishna Khandwala Prof. Brijal Panwala