Midnapure College (Autonomous)

Programming Fundamentals using C/C++ Lab

Q1. WAP to print the sum and product of digits of an integer.

Q2. WAP to reverse a number.

Q3. WAP to compute the sum of the first n terms of the following series

S = 1+1/2+1/3+1/4+……

Q4. WAP to compute the sum of the first n terms of the following series

S =1-2+3-4+5…………….

Q5. Write a function that checks whether a given string is Palindrome or not. Use this function to find whether the string entered by user is Palindrome or not.

Q6. Write a function to find whether a given no. is prime or not. Use the same to generate the prime numbers less than 100.

Q7.WAP to compute the factors of a given number.

Q8. Write a macro that swaps two numbers. WAP to use it. 9. WAP to print a triangle of stars as follows (take number of lines from user):

```
        *
      * * *
    * * * * *
  * * * * * * *
* * * * * * * * *
```

Q10. WAP to perform following actions on an array entered by the user:

i) Print the even-valued elements

ii) Print the odd-valued elements

iii) Calculate and print the sum and average of the elements of array

iv) Print the maximum and minimum element of array

v) Remove the duplicates from the array

vi) Print the array in reverse order

The program should present a menu to the user and ask for one of the options. The menu should also include options to re-enter array and to quit the program.

Q11. WAP that prints a table indicating the number of occurrences of each alphabet in the text entered as command line arguments.

Q12. Write a program that swaps two numbers using pointers.

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Q13. Write a program in which a function is passed address of two variables and then alter its contents.

Q14. Write a program which takes the radius of a circle as input from the user, passes it to another function that computes the area and the circumference of the circle and displays the value of area and circumference from the main() function.

Q15. Write a program to find sum of n elements entered by the user. To write this program, allocate memory dynamically using malloc() / calloc() functions or new operator.

Q16. Write a menu driven program to perform following operations on strings:

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