LAB ASSIGNMENT

1. a). Write a C program display your personal detail.
   b. Write a C program addition of given two numbers.
   c. Write a C program find out the simple Interest given principal, rate and time.
   d. To implement calculated perimeter and area of given positive radius of circle.
   e. To implement given number is "Even" or "Odd".

2. a) Write a C program accept **three digit** number find out sum of digit. 123=6
   b) Write a C program accept **three digit** number find out reverse number. 123=321
   c) Write a C program given number is palindrome or not palindrome.
   d) Write a C program given number is Armstrong or not Armstrong number.
   e) To implement swapping 1. With third variable. 2. Without third variable.

3. a) To implement given number is "Positive", "Negative" or "Equal to Zero".
   b) To implement Celsius to Fahrenheit and Fahrenheit to Celsius. Menu driven
   c) To implement maximum number given two number using ternary operator.
   d) To implement accept five marks find out total and division.

           If per>=60 then print "1st Division"
           If per>=45 then print "2nd Division"
           If per>=33 then print "3rd Division"
           Other wise "Fail"

   e) To implement accept three number displays in ascending order.

4. a. Write a C program to calculate and print the roots of quadratic equation ax^2+bx+c. Print there Roots if D>0 then "Roots are Real and Distinct" if D=0 then "Roots are Real and Equal" and D<0 then "Roots are Complex".
   b) To implement given character is lower character or upper character or digit.

ASCII Chart Total 0 TO 255 keyboard character		
65=A to 90=Z Total 26	97=a to 122=z Total 26	48=0 to 57=9 Total 10
Capital Letter	Small letter	Digit

   c) To implement print first N-Fibonacci numbers (ex- 0 1 1 2 3 5 8 13 ....).
   d) To implement accepts any year find given year is leap year or not a leap year.
   e) To implement these pattern

*	1	ABCDE
***	12	ABCD
*****	123	ABC
*******	1234	AB
*********	12345	A

5 a) To implement accept any positive number find out factorial using for loop
   b) To implement reverse number using while loop Such as 123=321.
   c) To implement Sum of Digit using do-while loop Such as $123=1+2+3=6$.
   d) To given N number implement sum of N number and maximum number.
   e) Write a C program accept any number find out given number is prime or not

6 a). Write a C program generate all prime number 1 to 100
   b). Write a C program generate all Armstrong number 1 to 500
   c). Write a C program generate all palindrome number 200 to 500
   d). To implement sum of series $!1 + !2 + !3 + !4 + \ldots\ldots\ldots$N terms.
   e) To implement sum of series
        $$Sum = X - X^3/!3 + X^5/!5 - X^7/!7 + \ldots\ldots\ldots\ldots N \text{ terms}$$

7 a) To implement accept any positive number find out factorial using function
   b) To implement accept two number find out power Ex. $2^3 = 8$. Own function.
   c) To implement accept any number find out the factorial using recursion.
   d) To implement call by value and call by reference
   e) To implement accept two number find power using recursion.

8 a). Write a C program to insert 10 integer numbers in an Array. Print the element of array in ascending order using pointer method.
   b). Write a C Program to read in 10 integer number and print there average, there sum, Minimum and Maximum numbers.
   c) To implement convert Decimal to Binary and binary to decimal.
   d) To implement Linear and Binary Search program.
   e). Write a C program to multiply two matrices $C = A^*B$. Take the size and element of matrices through keyboard and element of matrices not less then zero or negative. Where B is transpose of A.

9 a) To implement reverse a string using pointer method.
   b) To implement sort name of the given list of names
   c) To implement in any string how many vowels, how many white space (blank space), how many constant, how many upper character and lower character.
   d) To implement given string is "palindrome" or "not palindrome".
   e) To implement own strlen(), strcpy(), strcat(), strrev() function.

10 a). Declare a structure which contains the following member and write a program in C to list all students who scored more then 75 marks.
                 Roll No, name, age, marks.
    b). To implement display these name with the Command Line Argument
    c) To implement copy the content of given file say "a.txt" to another file "b.txt".
    d). Write a C program accept an N number and write into a file "number.txt". Using the file "number.txt", store different file "even.txt" and "odd.txt".