**PROBLEM SOLVING USING COMPUTERS**

**Lab 1. Sequential Instruction Based C Programs**

1. Program to print “Hello” on the Screen.

Graphical user interface, text, application

Description automatically generated

1. Write a program to take an input of two integer numbers and print the sum of that numbers.

A screenshot of a computer

Description automatically generated

1. Convert the time in seconds to hours, minutes and seconds. (1 hr =3600 sec).

A screenshot of a computer

Description automatically generated

1. Find the sum of the digits of a four-digit number (ex 1234 sum=10) (without using a loop).

Text

Description automatically generated

Text

Description automatically generated

1. Convert temperature given in Fahrenheit to Centigrade and Centigrade to Fahrenheit. Hint: C=5/9(F-32)).

Text

Description automatically generated

Graphical user interface, text

Description automatically generated

1. Converting distance in mm to cm, inch, feet (1 cm =10mm, 1inch=2.5cm, 1 feet =12 inches).

A screenshot of a computer

Description automatically generated

1. Find out the distance between two points e.g. (x1, y1) and (x2, y2).

Hint: Distance=√(x2-x1)2+ (y2-y1)2

Text

Description automatically generated

Graphical user interface, text

Description automatically generated

1. Evaluate the area of the circle Area = Pi \* R2

A screenshot of a computer

Description automatically generated

1. Interchange values of two variables using a third variable.

Text

Description automatically generated

1. Interchange values of two variables without using a third variable.

Text

Description automatically generated

**Lab 2. Control Structures: If, If-Else and Switch-Case statements**

1. Check whether the given number is odd or even.

**Text

Description automatically generated**

1. Check whether a given year is a leap year or not.

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

1. Write a program to take two numbers as an input and find whether one number is multiple of other or not.

Text

Description automatically generated

Graphical user interface, text

Description automatically generated

1. Write a program that returns a letter grade based on a quiz score. The input will be the integer score from a ten-point quiz.
   1. The letter grades are assigned by:
   2. 9 – 10 “A” 7 – 8 “B” 5 – 6 “C” 3 – 4 “D” < 3 “F”

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

1. Write a program to check whether given character is vowel, consonant or digit.

Text

Description automatically generated

Text

Description automatically generated