Lab 03 – 20-09-2023

Task 1: Write a program, to convert Centigrade into Fahrenheit. Declare two integer variables to store Centigrade and Fahrenheit. Input Centigrade value from user. Fahrenheit value using the formula. $F = C * 9/5 + 32$. Finally, print Fahrenheit value:

```
Sample Run:
Centigrade: 50
Fahrenheit: 122
```

Test your formula for different values of Centigrade

Task 2: Write a program, to calculate perimeter of an irregular connected shape having five sides. Input the value of all sides in variables. Obtain perimeter by adding sides. Finally, print all the sides and perimeter:

```
Sample Run:
Side 1: 5
Side 2: 8
Side 3: 3
Side 4: 4
Side 5: 6
Perimeter: 26
```

Task 3: W Write a program to declare three integer variables. The name of variables will be:x_1, x_2 & $answer$. Input x_1 & x_2 variables, compute and print following expressions:

$$x_1{}^2 + x_2{}^2 + 2x_1x_2$$

$$x_1{}^2 + \frac{1}{x_2{}^2} - 2$$

$$(x_1+x_2) * (x_1-x_2)$$

Task 4: Declare three character type variables. You may hardcode or input their values. The values should be from capital alphabets. Find the difference between all three. Print results in following format:

```
Sample Run:
Difference between F and C is 3
Difference between C and I is -6
Difference between I and F is 2
```