Lab 02 – 20-09-2023

Task 1: Write a program, to convert Centigrade into Fahrenheit. Declare two integer variables to store Centigrade and Fahrenheit. Hardcode Centigrade value and get Fahrenheit value using the formula. $\mathrm{F} = \mathrm{C} * 9/5 + 32$. Finally, print both Centigrade & 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. Hardcode 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: Write a program to declare three integer variables. The name of variables will be:x_1, x_2 & $answer$. Hardcode first two 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: Write a program, declare meaningful variables to store price of wheat, rice, and biscuit. Declare another variable to store total. Hardcode prices of wheat, rice and biscuit. Calculate to total and generate output in following format:

```
Sample Run:
Wheat      150
Rice       285
Biscuit    320
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Total      755
```