PF Lab 4 Tasks

Problem 01 **(10)**

Write a program takes three numbers as input and apply arithmetic operations of Addition, Subtraction, Multiplication, Division and Modulus on those two numbers.
For example: If num_1 = 20, num_2 = 4 and num_3 = 5 then the result will be:

```
Addition: 29
Subtraction: 11
Multiplication: 400
Division: 1
Modulus: 0
```

Problem 02 **(10)**

Write a program that reads in the radius and the height of a cylinder as an integer and prints the perimeter, lateral surface area and volume.

Perimeter = 2πr (where PI is a constant value of 3.1415 and r is radius)
lateral surface area = 2πrh (where h is height)
volume $= \pi r^2 h$

Note: Declare PI ***as constant***

```
Enter radius of a cylinder
10
Enter height of a cylinder
5
Perimeter: 62.8
Lateral Surface Area: 314
Volume: 1570
```

Problem 03 (10)

Write a program that reads an integer and prints its first 10 multiples.

```
Enter a number: 5
First 10 Multiples
5
10
15
20
25
30
35
40
45
50
```

Problem 04 (10)

A car holds 15 gallons of gasoline and can travel 375 miles before refueling. Write a program that
calculates the number of miles per gallon the car gets. Display the result on the screen.

Hint: Use the following formula to calculate miles per gallon (MPG):

MPG = Miles Driven / Gallons of Gas Used

```
MPG = 25
```