Instructions:

- It is individual assignment, so try to do it by yourself.
- Assignment should be in zip file named as RollNumber_Name_PF.zip and name of your file should be according to tasks given in this assignment.
- Assignment should be send on **bsef21pf@gmail.com** before deadline **Sunday 30 January 2022, 11:59pm**. Late submissions will not be considered.
- Email subject must contain **PF_Assignment**.
- Feel free to ask any question.
- Total marks of assignment are 100, 10 each.

Assignment # 01

Task 1. Write a program that displays size of int, float, double, char and bool data types, use sizeof() function.

Task 2. Write a program that compute area of a rectangle, whose height if 9m and width is 5m.Display its area.

Task 3. Write a program that displays sum, subtractions, multiplication and division of two float numbers. Take any float numbers i.e. float f1 = 5.4, f2 = 7.8;

Task 4. Write reasons for errors in following codes:

- int number = 10;
  cout << number;
  cout << number2;
  int number2 = 50;

- char ch = 'Programming Fundamental ';
  cout << ch ;

Task 5. Write a program that converts Fahrenheit temperature to Celsius temperature. Initialize a variable with Fahrenheit temperature value i.e float Fahrenheit = 35; And convert it into Celsius temperature. **Hint:** Celsius = (Fahrenheit - 32) * 5/9

   Sample Output:

   Temperature in Fahrenheit : 212

   Temperature in Celsius : 100

Task 6. Write a program that swaps value of two integer. Display values before and after swapping. **Hint:** Take help from third variable.

   Sample Output:

Before Swapping:	After Swapping:
Value of no1 = 5	Value of no1 = 10
Value of no2 = 10	Value of no2 = 5

Task 7. Write a program that stores your name, rollno, age and degree in valid data type variables. And displays in following format:

Hi, my name is ------- having roll number ------- and enrolled in -------. My age is -----

Task 8. Write a program that displays average of three numbers. Hardcode values of variables.

Task 9. Write a program in which you store float value in int variable. Explain the output.

Task 10. Suppose an employee gets paid every month and earns 2000 each pay period. In a year the employee gets paid 12 times. Write a program that defines the following variables:

payAmount; this variable will hold the amount of pay the employee earns each pay period.

payPeriods; this variable will hold the number of pay periods in a year.

annualPay; this variable will hold the employee's total annual pay, which will be calculated.

Display the value of annualPay variable.

Hint: Employee's total annual pay can be calculated by multiplying employee's pay amount by number of pay periods in a year.