

CS 103 – Lab 6

Task1: Write a Java program that includes the method **Square(a)** which returns square of the input parameter (a). Then, in the main method use the Square method to calculate the sum of squares of even numbers between the two input variables (x) and (y). You should use scanner class to read the inputs x and y from the console.

For instance:

```
Enter x: 1
Enter y:10
Sum of Squares of even numbers between 1 and 10 is 220
```

Task2: Write a Java program that contains the following two methods:

- **Sum(a):** this method returns the sum of numbers less than (a).
- **Average(a):** this method returns the average of numbers less than (a).

Then, use the previous methods in the main method to find the sum and average of numbers less than x=100. You should use scanner class to read the input x from the console. The average should be printed in the main in a formatted way (have two decimals after .)

The result should be:

```
Enter x: 100
Sum = 4950.0
Average = 49.00
```

Task3: Write a Java program that reads the value of variable named **grade** from console and prints the message **(You passed the course)** if its value is higher or equals to 60. Otherwise it shall print **Unfortunately, you failed the course**. You should use scanner class to read the grade from the console.

The result should be:

```
Enter your grade: 75
You passed the course
```

Task4: Write a Java program that prints the even numbers between (a) and (b). You should use scanner class to read the inputs a and b from the console. The result should be:

```
Enter a: 1
Enter b: 10
2
4
6
8
10
```