KINGDOM OF SAUDI ARABIA
MINISTRY OF HIGHER EDUCATION
JAZAN UNIVERSITY
COLLEGE OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

المملكة العربية السعودية
وزارة التعليم العالى
جـامـعـة جـــازان
كلية الحاسب اآللى ونظم المعلومات

ASSIGNMENT- I

Term: First Semester **Academic Year: 2022-23**

Course Name: Programming 1 **Course Code: COMP-112**
Date: 26-09-2022 **Submission Date: 11-10-2022**
Section Number: 2551 / 2554 **Level: 2**
Maximum Marks: 10

ANSWER ALL QUESTIONS:

1. Write short notes on:
   i. Compiler: **reads the source code and generates Java byte-code.**

   ii. Identifiers: **the name of a variable or other item (class, method, object, etc.) defined in a program.**

2. What are the various arithmetic operations supported by Java?
   + (addition).
   - (subtraction).
   *** (multiplication).**
   / (division).
   % (modulo).

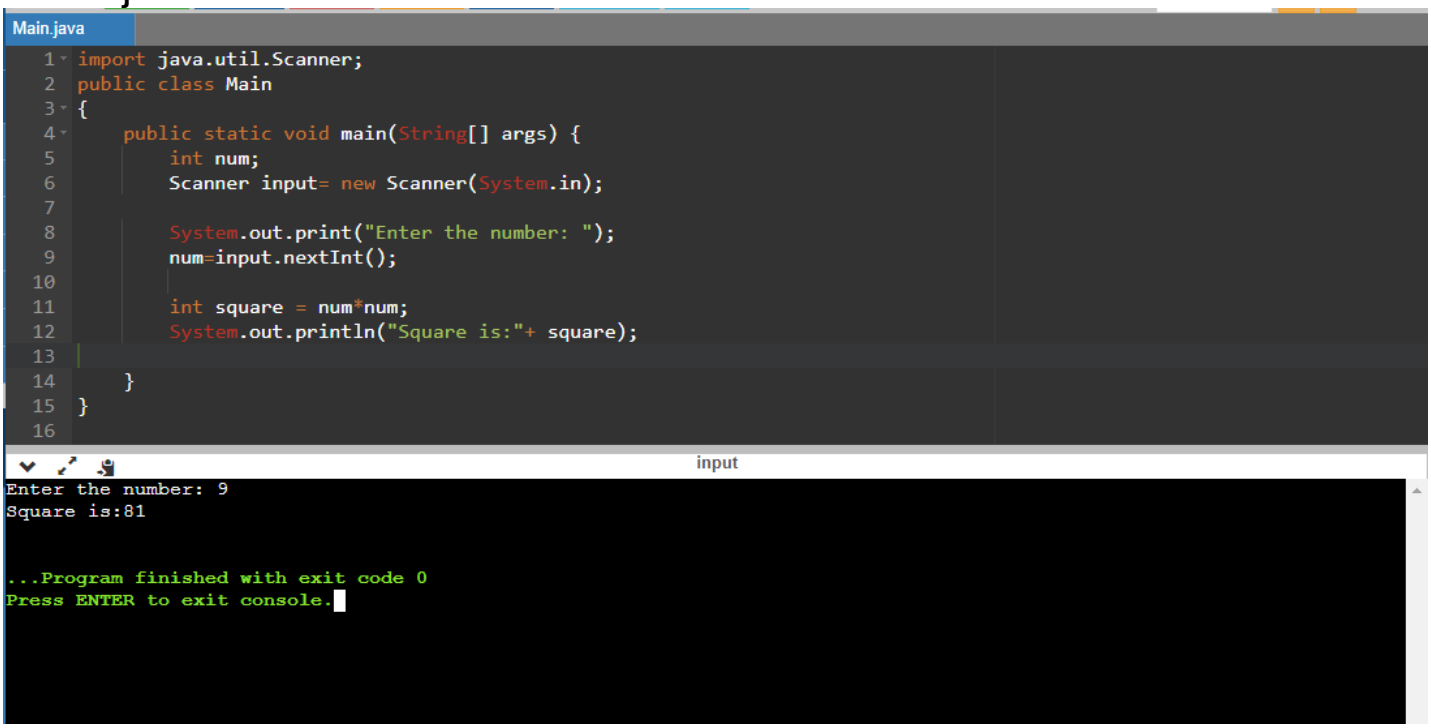
3. Write a Java program to read a number from the keyboard and find its square. Display the number and its square on the screen.

```
import java.util.Scanner;
public class Main
{
    public static void main(String[] args) {
    int num;
      Scanner input= new Scanner(System.in);

      System.out.print("Enter the number: ");
      num=input.nextInt();

      int square = num*num;
      System.out.println("Square is:"+ square);

    }
}
```



4. Write the output of the following java program:

```
Public class Details
{
   Public static void main(String [] args)
   {
        String f_name = “Maryam”;
        String m_name = “Ali”;
        String l_name = “Yahya”;
        String full_name = fname + m_name + l_name;
        System.out.println(“Your name is  “ + full_name);
        Int n= full_name.length();
        System.out.println(“Your name contains “ + n + “letters”);
   }
}
```

Output:

Your name is MaryamAliYahya
Your name contains 14letters

5. Sort the following identifier names as valid and invalid. If invalid, give reason to justify your answer.

Identifier Name	Valid / Invalid	Reason
My_Name	Valid	
_Age	Valid	
Tom&Jerry	Invalid	because of cannot define of & in variable except underscore
Marks_English	Valid	
RATE	Valid	
Price_	Valid	
public	Invalid	because the word public is reserved keyword.
1number	Invalid	because the variable cannot start with a number.

Important Instructions:

- **Submit the soft copy of your assignment on Blackboard. Do not submit the hard copy image.**
- **Make the Assignment Name like this (your ID.Assignment_1)**
- **Take proper care during submission of Assignment; submit it in proper group and proper document. After the submission kindly check the document again. If you have submitted the wrong document or in a wrong group, immediately contact me to me (Course Teacher).(via WhatsApp)**
- **Submit the Assignment soft copy BEFORE 23:59hrs of the due date.**
- **If you submit your assignment late. Each day, 10% penalty will incur of the total marks scored by the students.**

COURSE TEACHER: Ms. Roma Fayaz