Activity

Index No: 23CDS0843

1. **Declare variable to store the following.**
   - Student name
   - GPA
   - Registration number

   print all values

StudentInfo.java

```
activites > StudentInfo.java > ...
1   public class StudentInfo {
        Run | Debug
2       public static void main(String[] args) {
3           String studentName = "Yehan";
4           double gpa = 3.8;
5           String registrationNumber = "23CDS0843";
6
7           System.out.println("Student Name: " + studentName);
8           System.out.println("GPA: " + gpa);
9           System.out.println("Registration Number: " + registrationNumber);
10      }
11  }
12
```

```
C:\Users\Administrator\Documents\github\ObsidianVault\2104 Object Oriented Programming\activites>java StudentInfo
Student Name: Yehan
GPA: 3.8
Registration Number: 23CDS0843
```

2. **Write a Java program to calculate the area of a rectangle using**
   - length = 8
   - width = 5

RectangleArea.java

```
activites > RectangleArea.java > RectangleArea
1   public class RectangleArea {
        Run | Debug
2       public static void main(String[] args) {
3           int length = 8;
4           int width = 5;
5
6           int area = length * width;
7
8           System.out.println("Area of the rectangle: " + area);
9       }
10  }
11
```

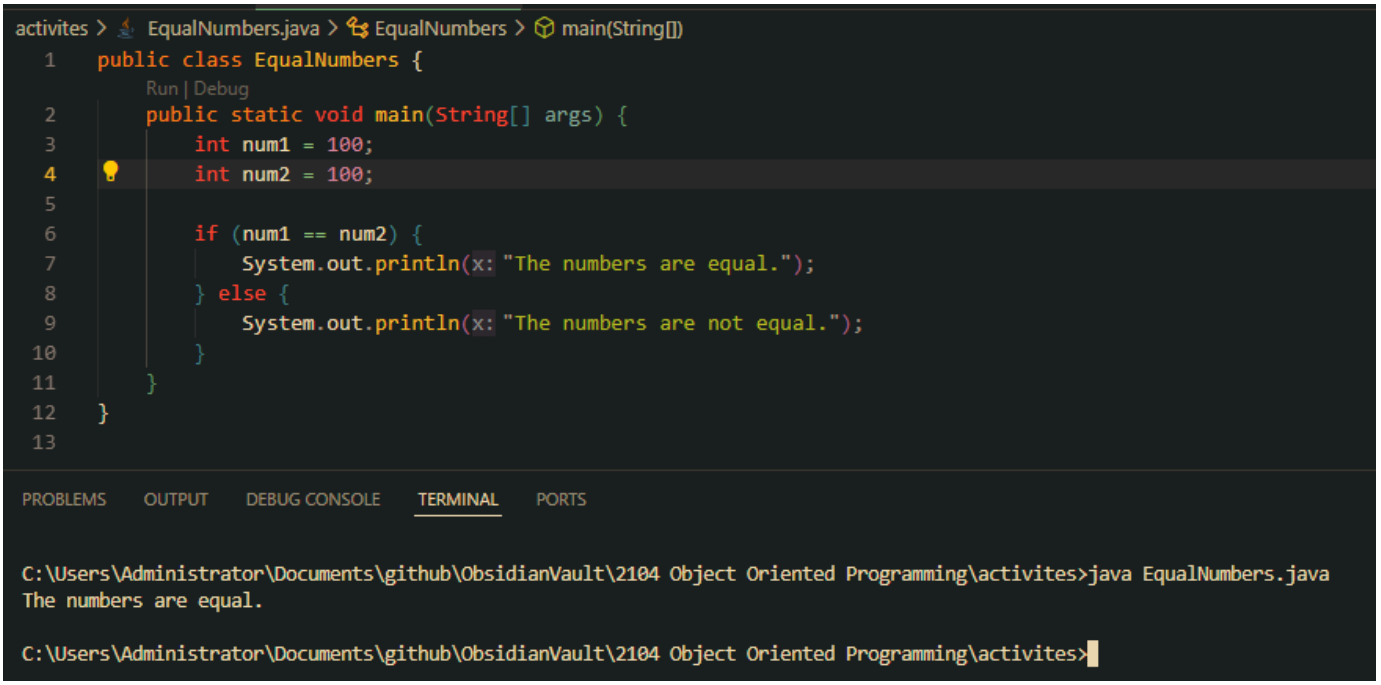
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

C:\Users\Administrator\Documents\github\ObsidianVault\2104 Object Oriented Programming\activites>javac RectangleArea.java

C:\Users\Administrator\Documents\github\ObsidianVault\2104 Object Oriented Programming\activites>java RectangleArea
Area of the rectangle: 40

C:\Users\Administrator\Documents\github\ObsidianVault\2104 Object Oriented Programming\activites>
```

3. **Given the following code, write final value of x.**

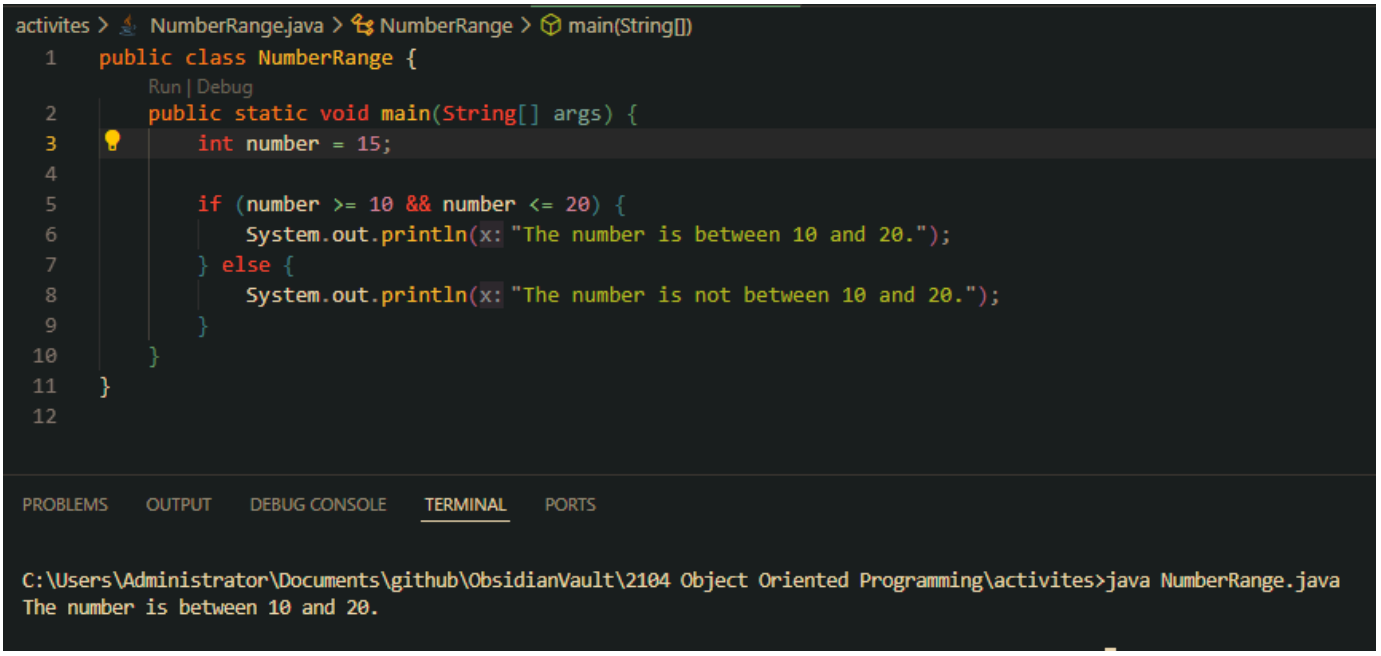
```
int x = 5;
x += 3;
x *= 2;
x -= 4;
```

FINAL OUTPUT: 12 (x is now 12)

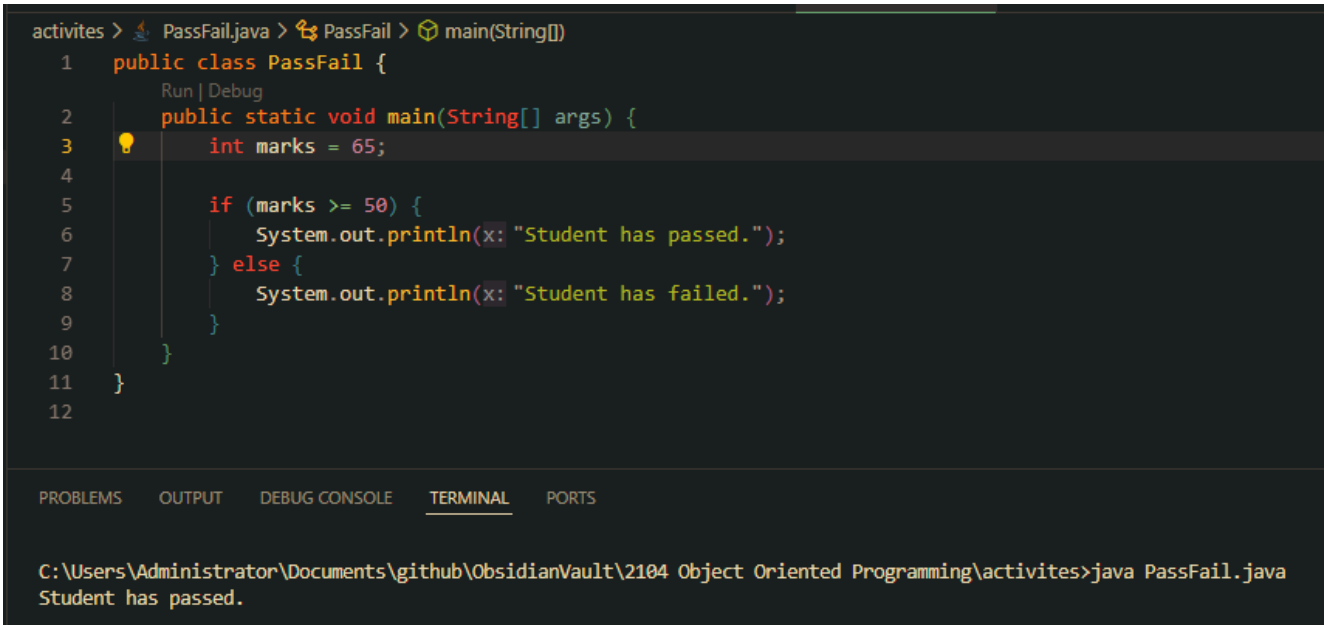
4. **Write a Java program to check whether two numbers are equal and print the result.**



5. **Write a Java program to check whether a number is between 10 and 20.**



6. **Write a Java program to check whether a student has passed or failed.**
   - Pass mark = 50



7. **What will be the output of the following code?**

```
boolean isRaining = false;
System.out.println(!isRaining);
```

OUTPUT: `true`

8. A user can access a system if:
   - The user is logged in
   - AND the account is active

   write a Java program to check this condition