Java Assignment Module 1

1. Reverse a number in java

revNum.java - Notepad

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```
//How to reverse a number in java

import java.util.Scanner;
class NumReverse {
     public static void main(String[] args){
          Scanner sc = new Scanner(System.in);
          System.out.println("Enter The Phone Number");
          int Num = sc.nextInt();
          System.out.println("Your Phone Number = " + Num);
          int revNum = 0;                                   // 0 decleared
          while(Num != 0){                                  // 12 not equal to zero = {true} entered in loop {round1 = true,round2 = true, round3 is equal to 0 = fals}
               revNum = (revNum * 10) + (Num % 10);         // Round1{0*10 = 0  12%10= 2 0+2 =2=revNum } --> Round2{2*10 = 20  1%10=1  20+2 =21=revNum }
               Num = Num / 10;                              // round1{12/2 =1= Num}--> round2{1/10=0}
          }
          System.out.print("Revised Number = ");
          System.out.println(revNum);
     }
}
```

C:\Windows\System32\cmd.exe

```
Enter The Phone Number
12345
Your Phone Number = 12345
Revised Number = 54321

D:\Core java\Assignment\1A>
```

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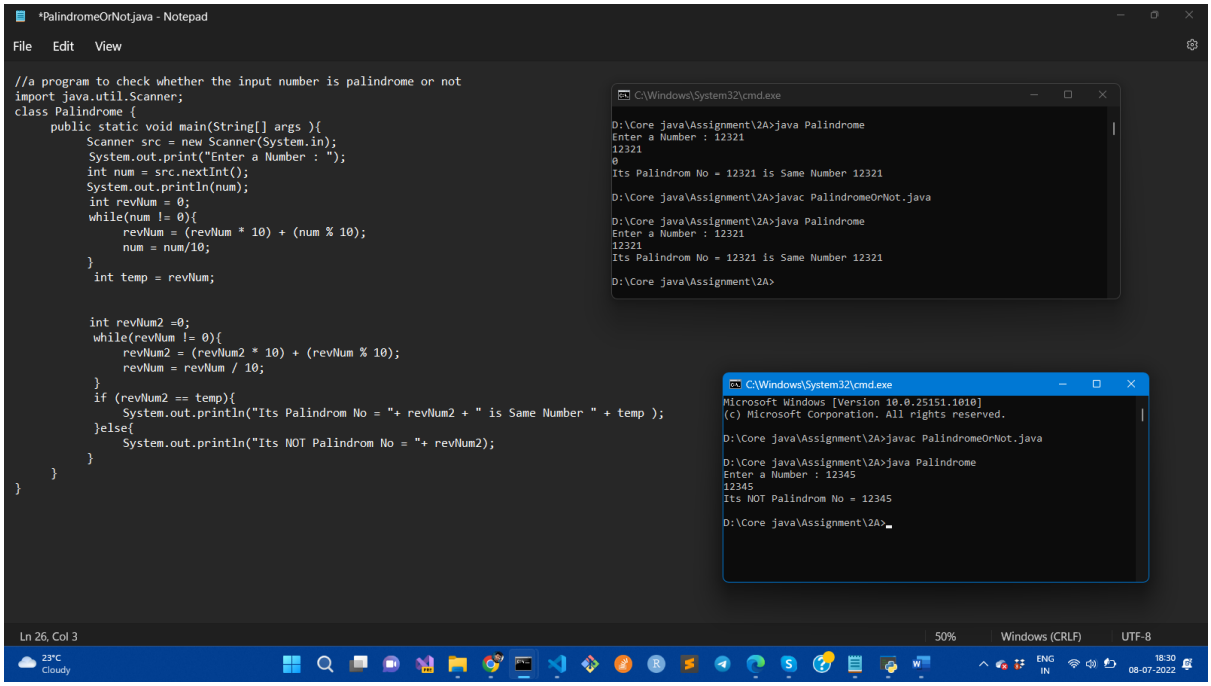
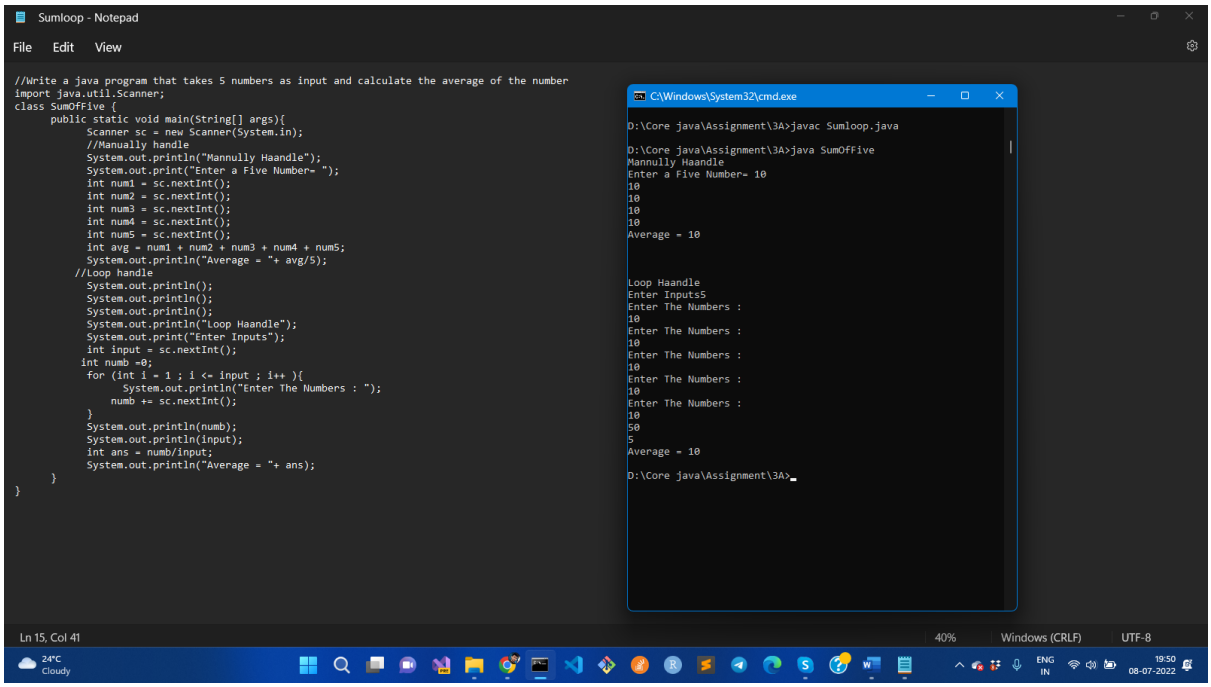
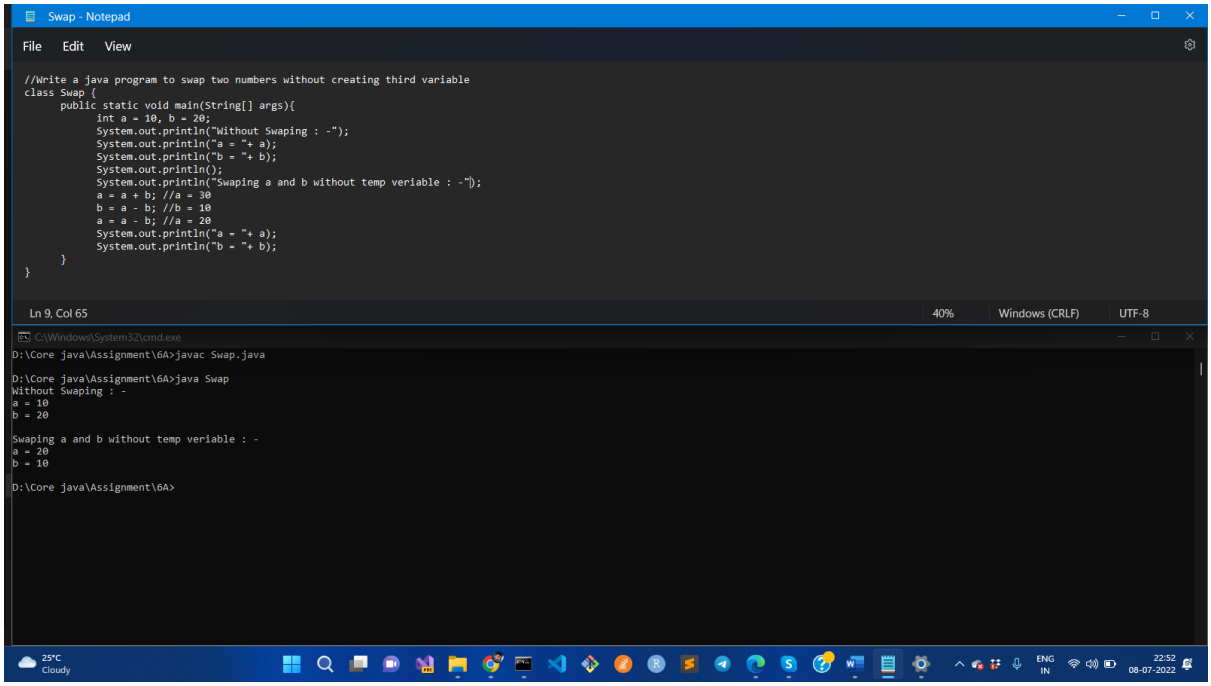
2. Program to check whether the input number is palindrome or not



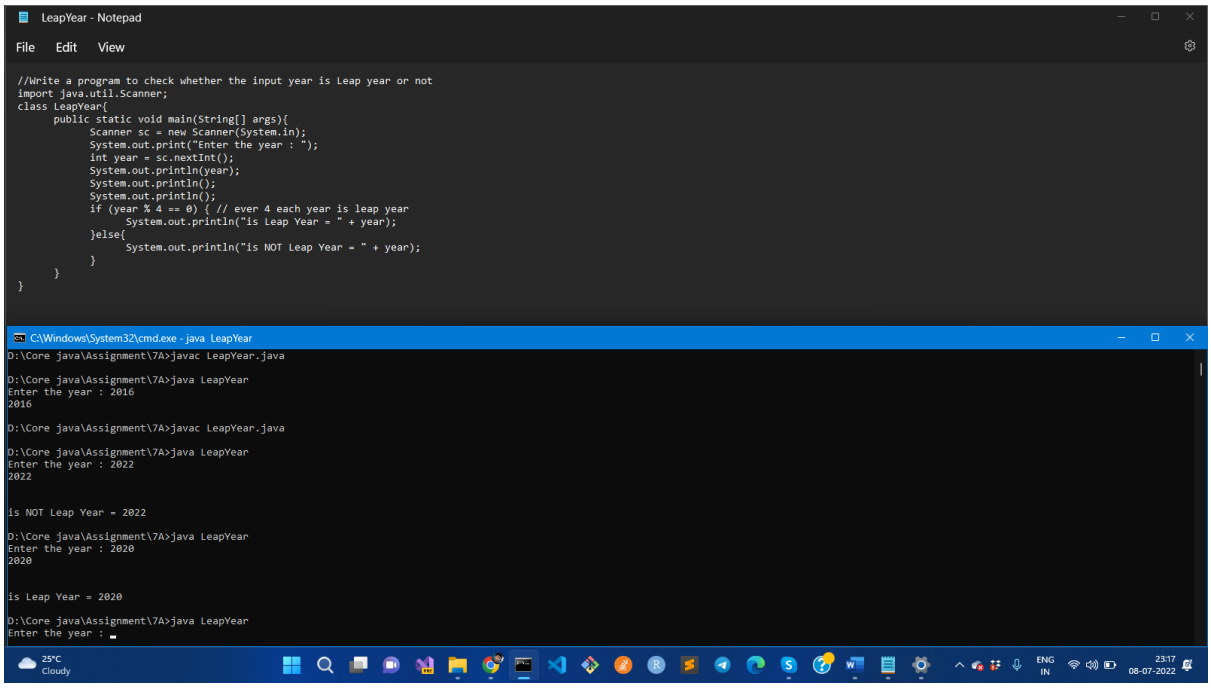
3. Write a java program that takes 5 numbers as input and calculate the average of the number



4. Write a java program to swap two numbers without creating third variable



5. Write a program to check whether the input year is Leap year or not



6. How to create a star pyramid pattern using ‘*’ in Java

```
* * * * * * * *
  * * * * *
    * * *
     * *
      *
```

DownPyraimd - Notepad

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```
//How to create a star pyramid pattern using ‘*’ in Java
// * * * * * * *
//   * * * * *
//     * * *
//       * *
//         *
import java.util.Scanner;
class DowmPyraimd {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter length : ");
        int rows = sc.nextInt();
        for(int i = rows; i >= 1; --i) {
            for(int space = 1; space <= rows - i; ++space) {
                System.out.print("  ");
            }

            for(int j=i; j <= 2 * i - 1; ++j) {
                System.out.print("* ");
            }

            for(int j = 0; j < i - 1; ++j) {
                System.out.print("* ");
            }

            System.out.println();
        }

    }
}
```

C:\Windows\System32\cmd.exe

```
D:\Core java\Assignment\8A>javac DownPyraimd.java

D:\Core java\Assignment\8A>java DowmPyraimd
Enter length : 5
* * * * * * * * *
  * * * * * * *
    * * * * *
      * * *
        *

D:\Core java\Assignment\8A>
```

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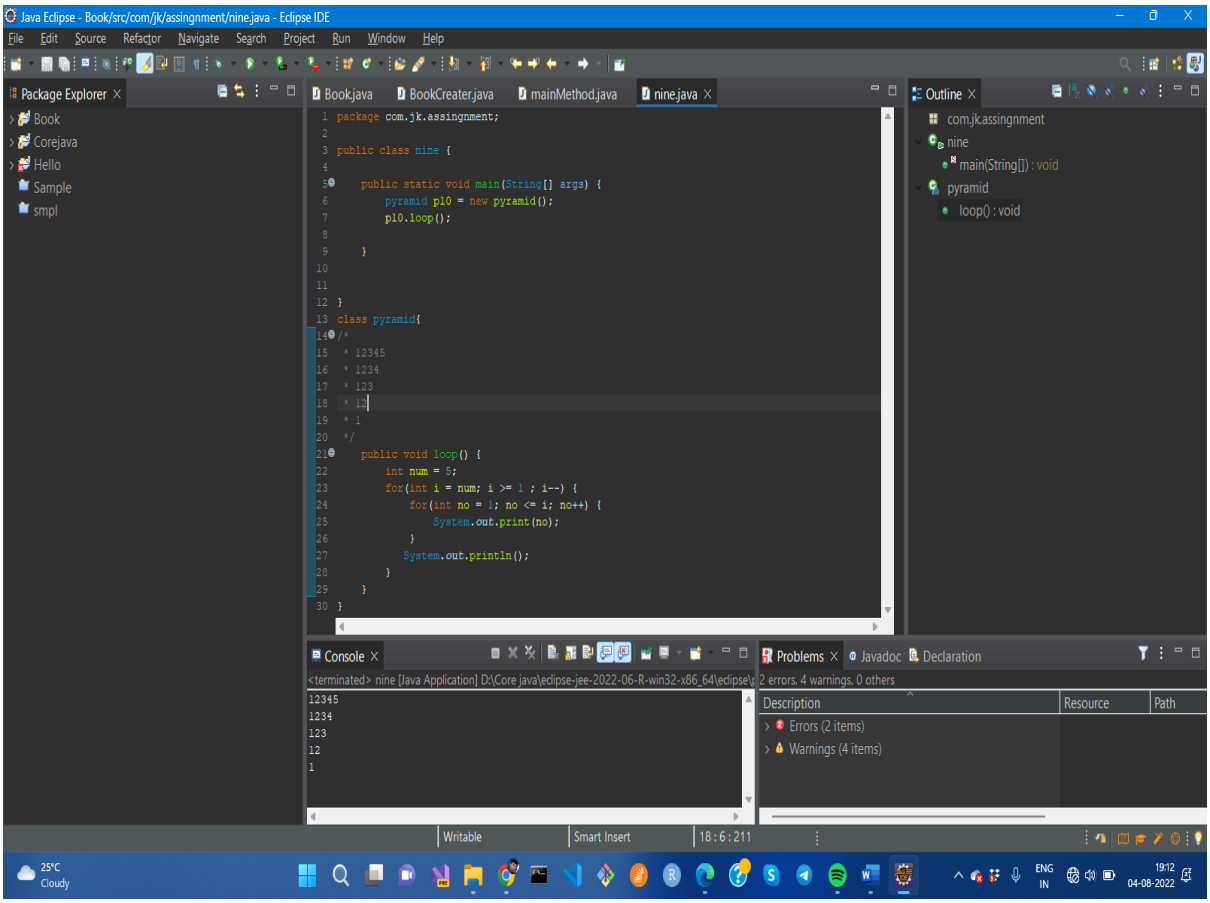
7. Write A Program To Print Inverted Half Pyramid Pattern Using Numbers In Java



8. # Write A Program To Print Hollow Rectangle Using “*” In Java