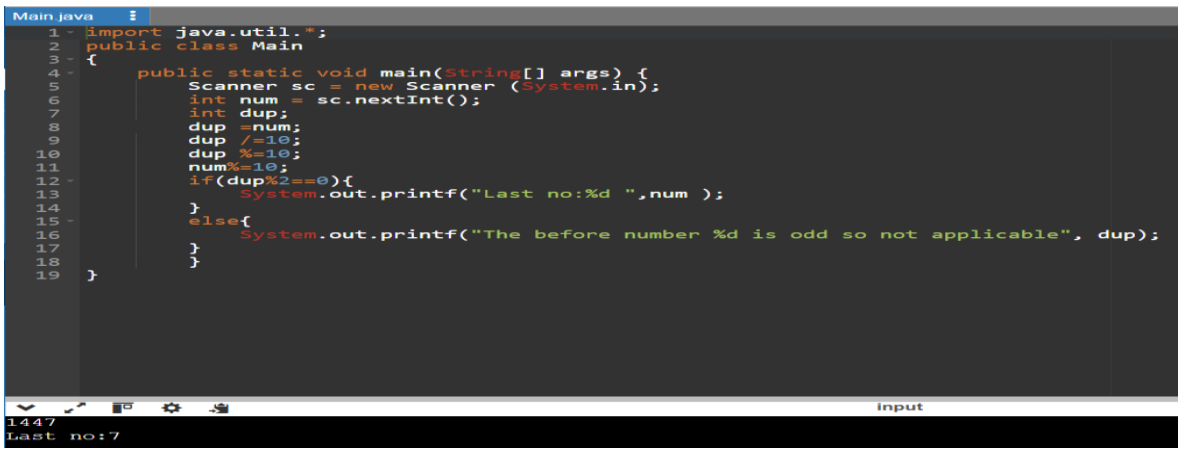
VISHAL A

Task 1: Display the last digit of given number only the last before digit is even

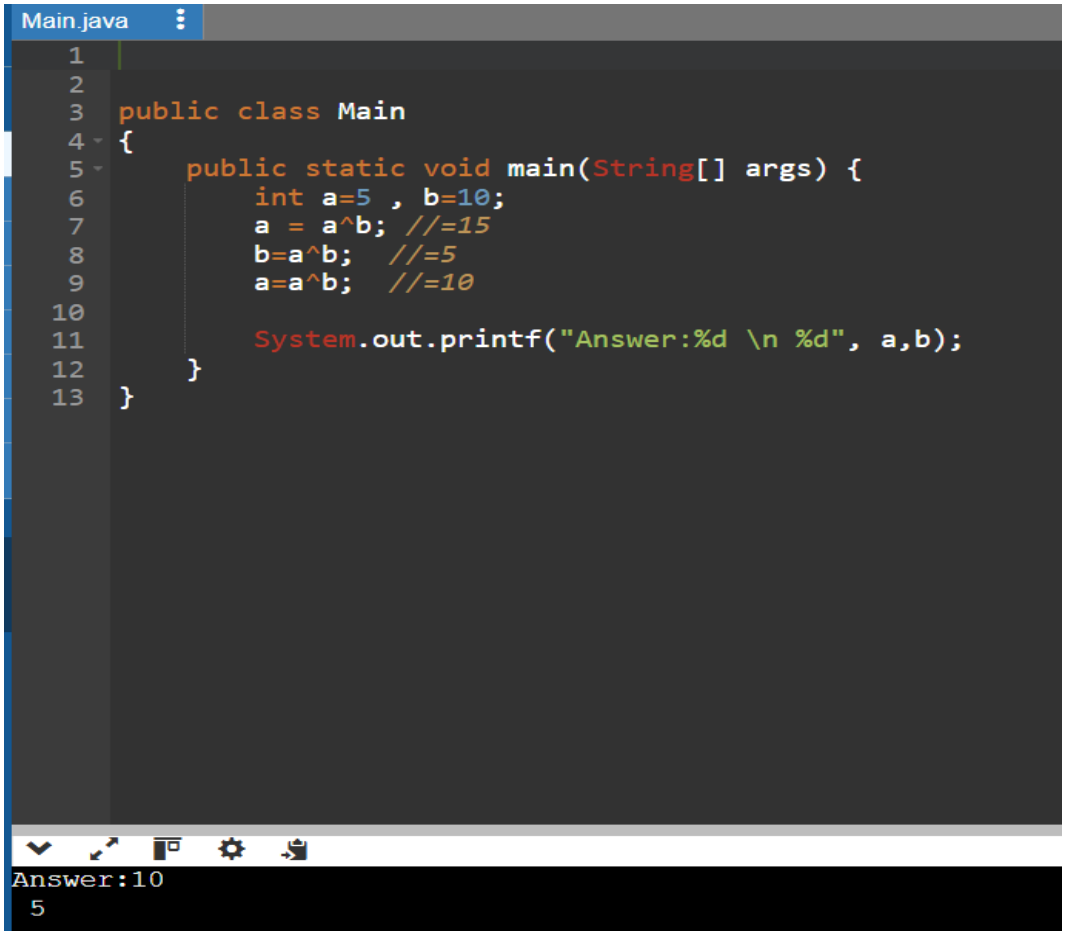
```
import java.util.*;

public class Main

{

        public static void main(String[] args) {

                Scanner sc = new Scanner (System.in);

                int num = sc.nextInt();

                int dup;

          dup =num;

                dup /=10;

                dup %=10;

                num%=10;

                if(dup%2==0){

                  System.out.printf("Last no:%d ",num );

                }

                else{

                  System.out.printf("The before number %d is odd so not applicable",
dup);

                }

                }
```



VISHAL A

Task 2: How does this logic swap variables without a third variable? using ^ operator

```
public class Main
{
	public static void main(String[] args) {
		int a=5 , b=10;
		a = a^b; //=15
		b=a^b;  //=5
		a=a^b;  //=10

		System.out.printf("Answer:%d \n %d", a,b);
	}
```

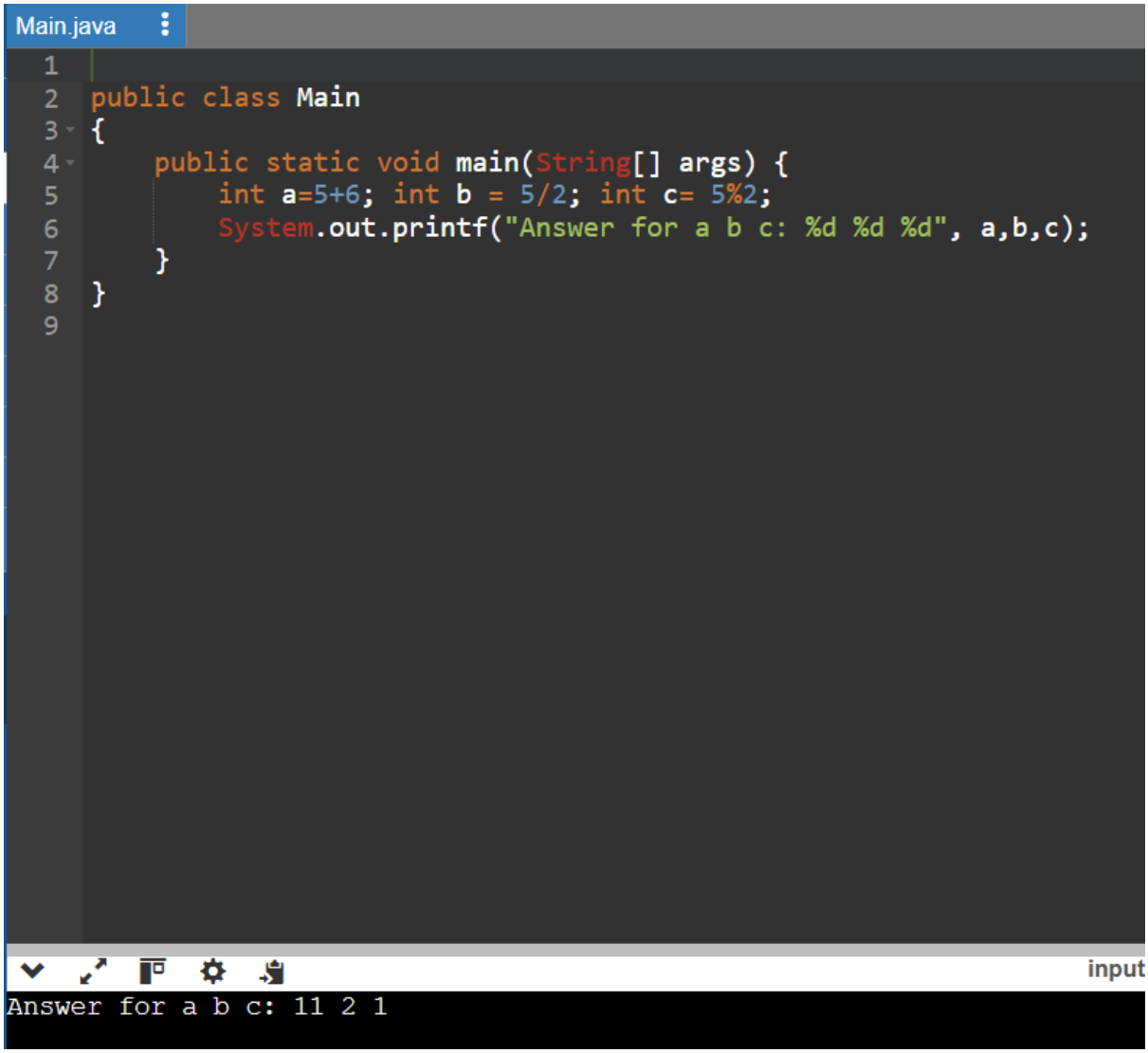



```
}
```

VISHAL A

Task 3: Write a program where three integer variables a, b, and c are initialized using a single expression involving arithmetic operations. Print all three variables.

```
public class Main
{
	public static void main(String[] args) {
		int a=5+6; int b = 5/2; int c= 5%2;
		System.out.printf("Answer for a b c: %d %d %d", a,b,c);
	}
}
```



VISHAL A

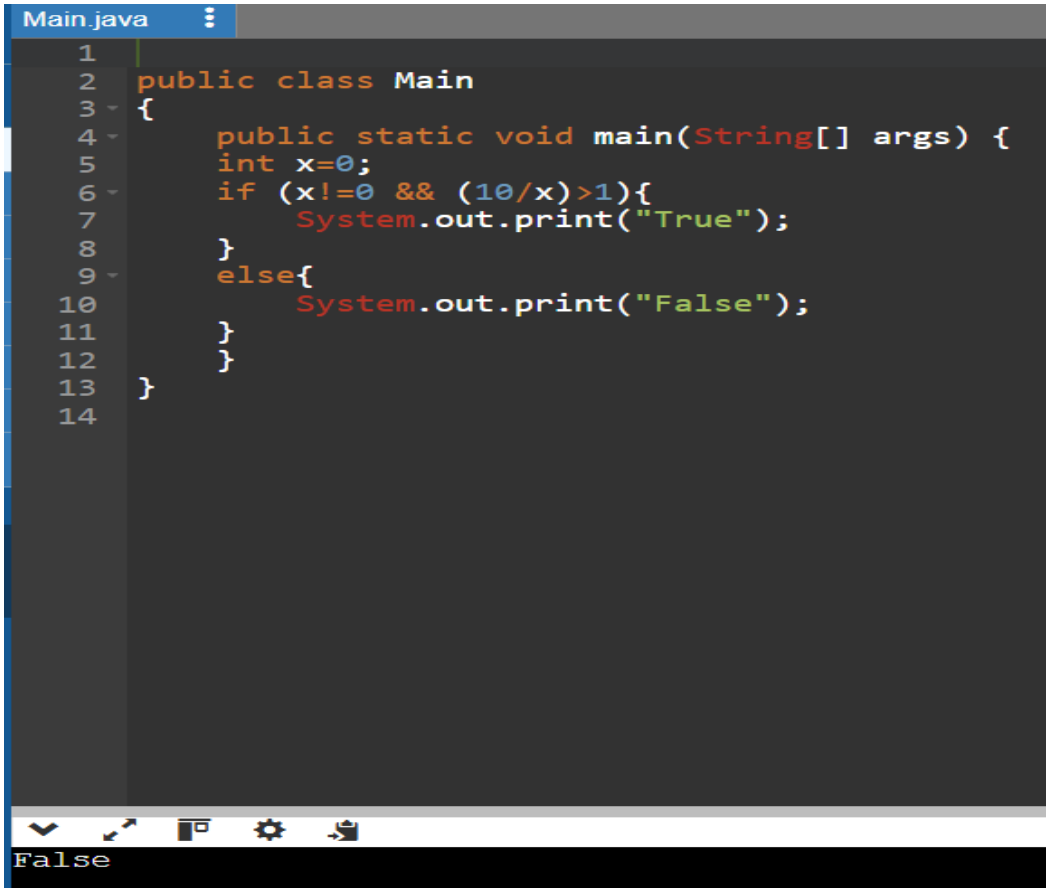
Task 4: Given three variables a, b, c, use nested ternary (?:) operators to return which one is the largest without if-else

```
public class Main {
   public static void main(String[] args) {
      int a = 10, b = 20,c = 30;

      String result = (a > b) ? "a is greater" :(c<b)? "b is greater":"c is greater";

      System.out.println("Result: " + result);
   }
}
```

VISHAL A

Task 5: Declare an integer x = 0. Write a condition using && inside an if where the second condition divides 10 by x. Explain the output.

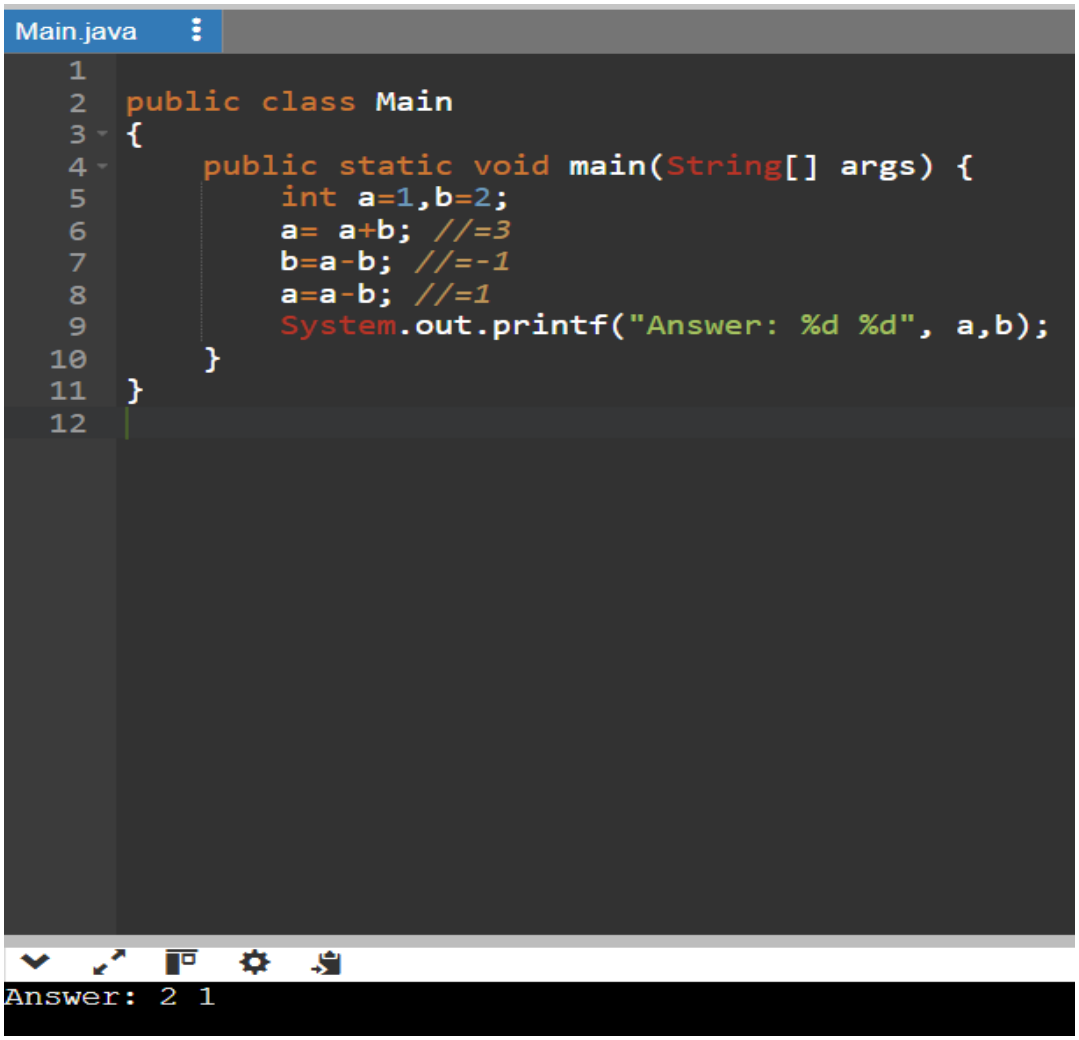
```
public class Main
{
        public static void main(String[] args) {
        int x=0;
        if (x!=0 && (10/x)>1){
          System.out.print("True");
        }
        else{
          System.out.print("False");
        }
        }
}
```



VISHAL A

Task 6: Swap Two Numbers Without Third Variable

```
public class Main
{
	public static void main(String[] args) {
		int a=1,b=2;
		a= a+b; //=3
		b=a-b; //=-1
		a=a-b; //=1
		System.out.printf("Answer: %d %d", a,b);
	}
```




```
}
```

VISHAL A

Task 7: Convert Fahrenheit to Celsius (take fahrenheit as input)

```
import java.util.*;

public class Main

{

        public static void main(String[] args) {

                Scanner sc = new Scanner (System.in);

                float f_h=sc.nextFloat();

                float celcious =(float) 5.0/9 * (f_h - 32);

                System.out.printf("Celcious: %f", celcious);

        }
```