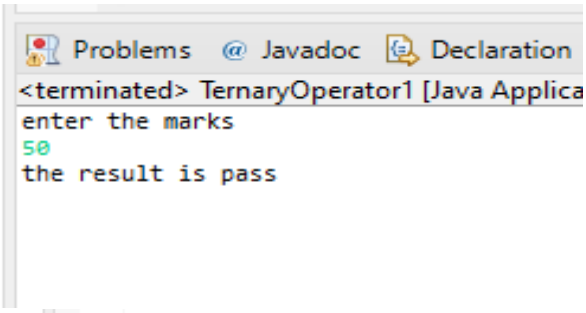
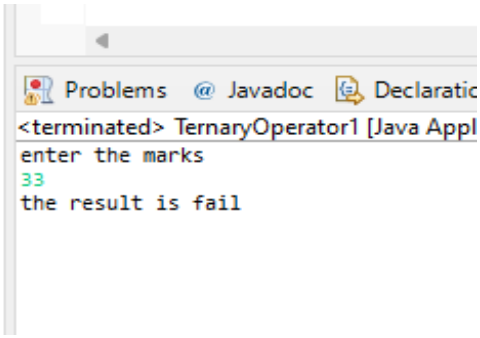
ASSIGNMENT 1

Q1) wap to demonstrate ternary operator .define a variable marks .ask its value from user and using ternary operator check if marks > 40 store "Pass" in result varible else store "Fail".

```
package assignment1;

import java.util.*;
public class TernaryOperator1 {

	public static void main(String[] args)
	{
		Scanner s=new Scanner(System.in);
		System.out.println("enter the marks");
		int marks=s.nextInt();


		String result=(marks>40)? "pass":"fail";
		System.out.println("the result is " +result);

	}


}
```

output:-

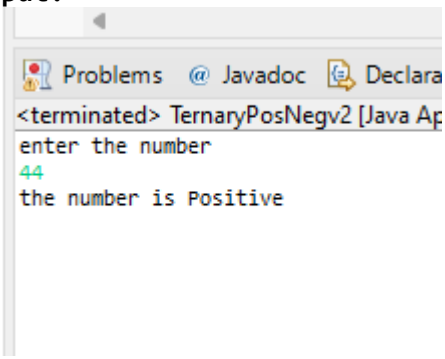


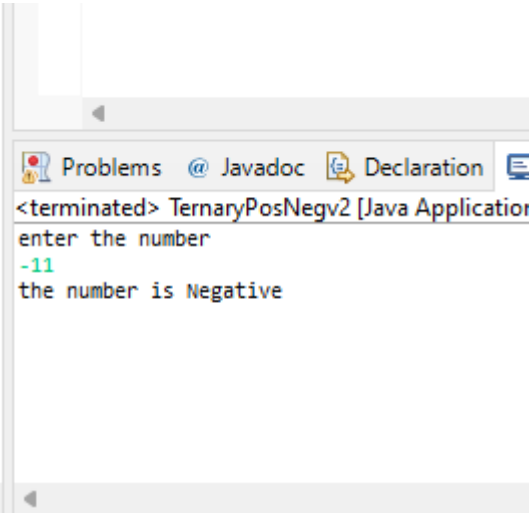


Q 2) using ternary check if number entered by user is positive or negative .
In case number is positive store "Positive number" else store negative number to Result variable.

```
package assignment1;

import java.util.*;
public class TernaryPosNegv2 {

	public static void main(String[] args)
	{
		Scanner s=new Scanner(System.in);
		System.out.println("enter the number");
		int num=s.nextInt();


		String result=(num>0)? "Positive":"Negative";
		System.out.println("the number is " +result);

	}


}
```

Output:-

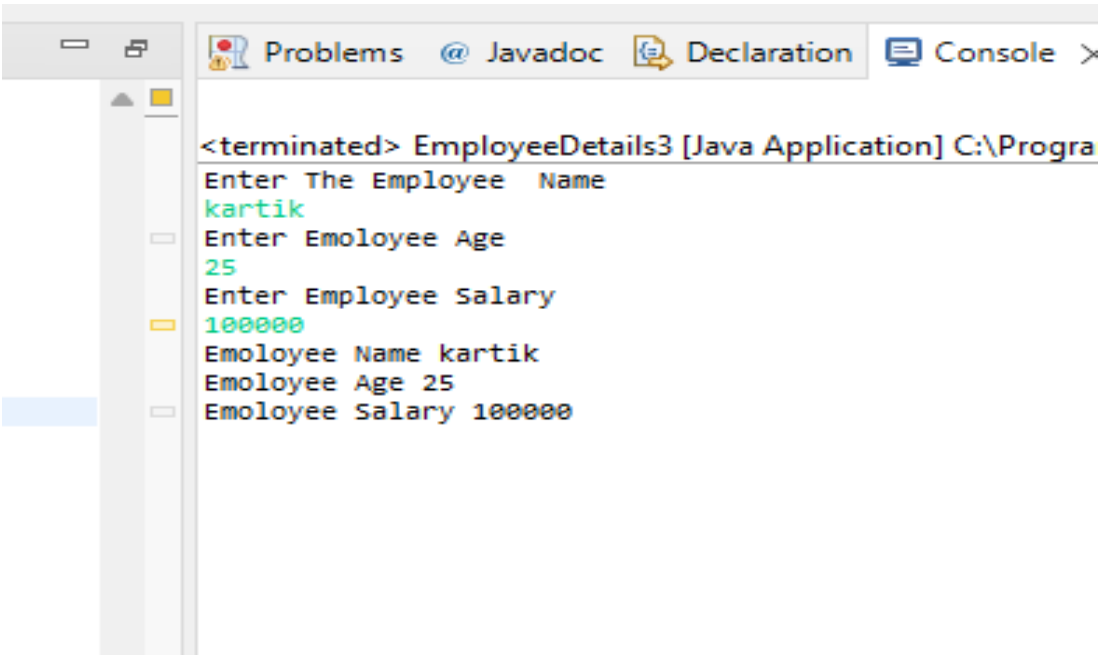




Q 3) WAP to ask name ,age and salary of an employee and print on console.

```
package assignment1;

import java.util.*;
public class EmployeeDetails3 {

	public static void main(String[] args)
	{

		Scanner s=new Scanner(System.in);

		System.out.println("Enter The Employee  Name");
		String name=s.nextLine();

		System.out.println("Enter Emoloyee Age");
		int age=s.nextInt();

		System.out.println("Enter Employee Salary");
		int salary=s.nextInt();

		System.out.println("Emoloyee Name " +name);
		System.out.println("Emoloyee Age " +age);
		System.out.println("Emoloyee Salary " +salary);

	}


}
```

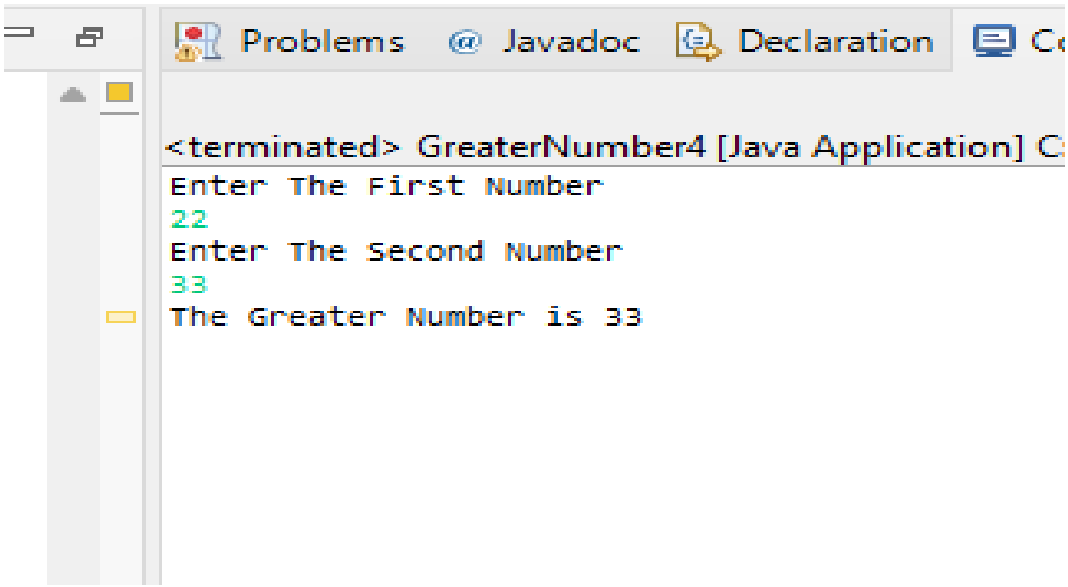
Output:-



Q 4) wap that ask two numbers from user and print greater number among two

```
package assignment1;

import java.util.*;
public class GreaterNumber4 {

	public static void main(String[] agrs)
	{
		Scanner s=new Scanner(System.in);
		System.out.println("Enter The First Number");
		int a=s.nextInt();

		System.out.println("Enter The Second Number");
		int b=s.nextInt();

		if(a>b)
		{
			System.out.println("The Greater Number is " +a);

		}

		else
		{
			System.out.println("The Greater Number is " +b);
		}
	}

}
```

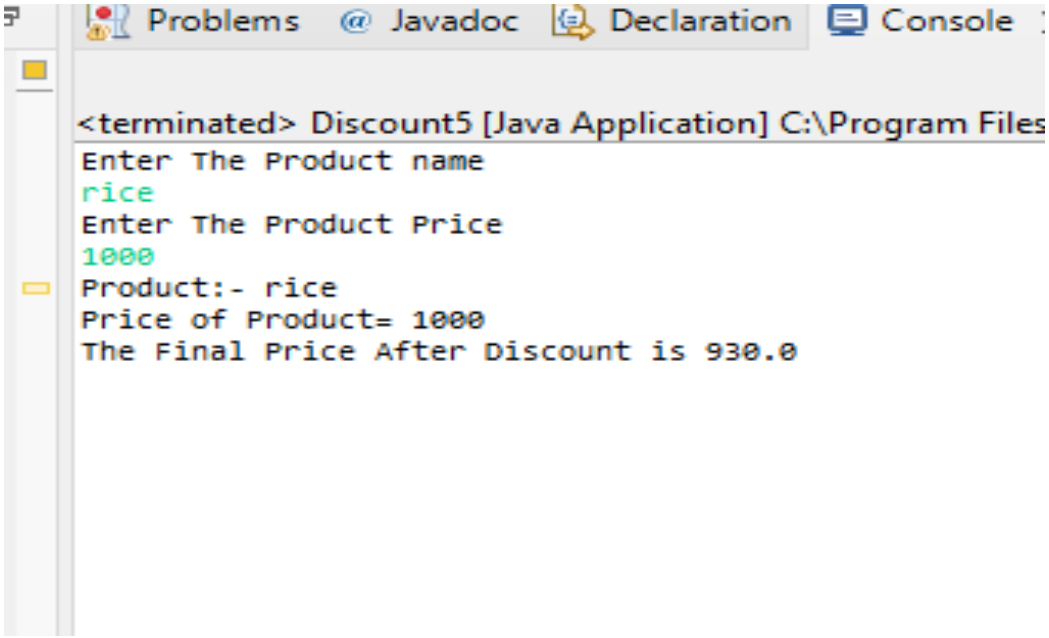
Output:

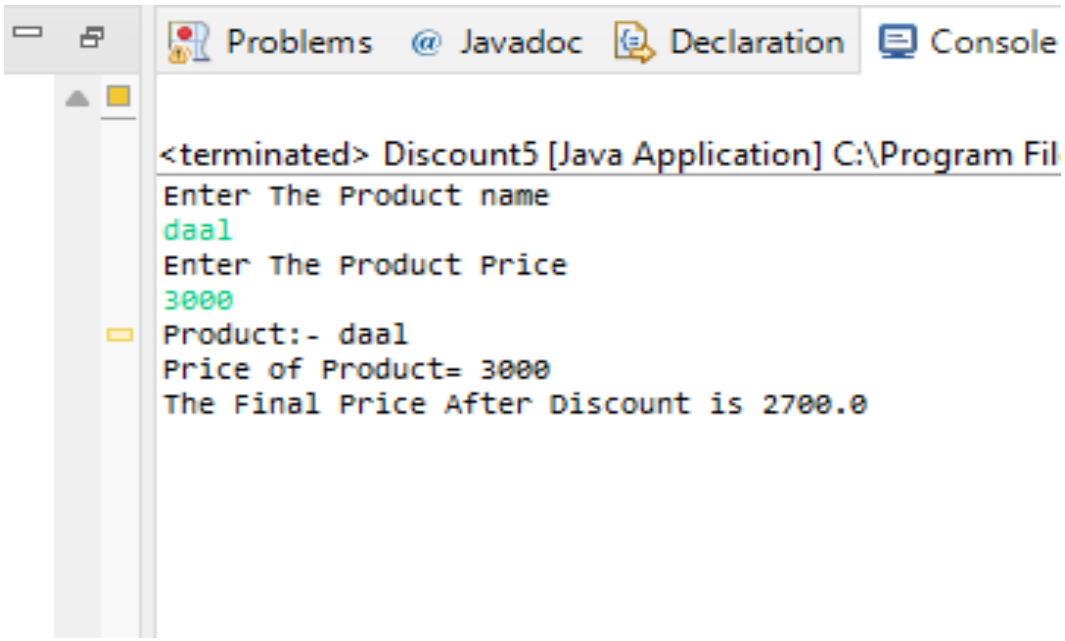


Q 5) wap to ask product name and price of product from user and calculate discount i.e
if price > 2000 then discount is 10 percent of price
else
discount is 7 % of price

```
package assignment1;

import java.util.*;
public class Discount5 {

	public static void main(String[] args)
	{
		Scanner s=new Scanner(System.in);
		System.out.println("Enter The Product name");
		String proname=s.nextLine();

		System.out.println("Enter The Product Price");
		int price=s.nextInt();

		if (price>2000)
		{
		double	discount= 90;

		double finalprice=(price*discount)/100;
		System.out.println("Product:- " +proname);
		System.out.println("Price of Product= " +price);
		System.out.println("The Final Price After Discount is "
+finalprice);

		}
		else
		{
			double discount=93;

			double finalprice=(price*discount)/100;

			System.out.println("Product:- " +proname);
			System.out.println("Price of Product= " +price);
			System.out.println("The Final Price After Discount
is " +finalprice);
		}
	}

}
```

OUTPUT:-

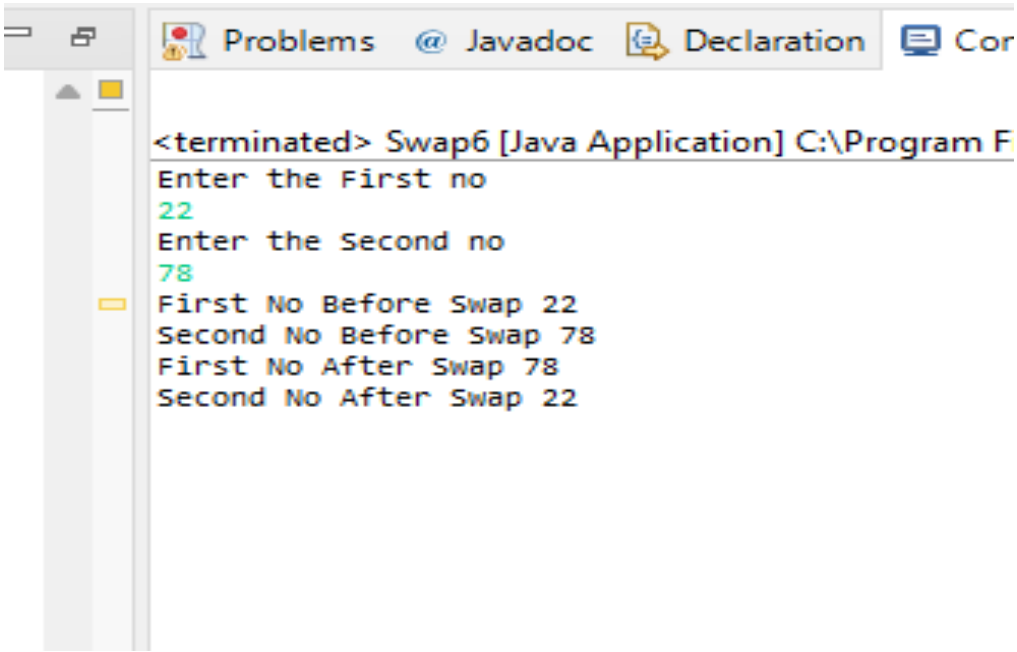

Problems
Javadoc
Declaration
Console
<terminated> Discount5 [Java Application] C:\Program Files
Enter The Product name
rice
Enter The Product Price
1000
Product:- rice
Price of Product= 1000
The Final Price After Discount is 930.0


Problems
Javadoc
Declaration
Console
<terminated> Discount5 [Java Application] C:\Program Fil
Enter The Product name
daal
Enter The Product Price
3000
Product:- daal
Price of Product= 3000
The Final Price After Discount is 2700.0

Q 6) Wap to swap two numbers.

```
package assignment1;

import java.util.*;
public class Swap6 {

	public static void main(String[] args)
	{
		Scanner s=new Scanner(System.in);
		System.out.println("Enter the First no");
		int first=s.nextInt();
		System.out.println("Enter the Second no");
		int second=s.nextInt();

		System.out.println("First No Before Swap " +first);
		System.out.println("Second No Before Swap " +second);

		int temporary=first;

		first=second;

		second=temporary;

		System.out.println("First No After Swap " +first);
		System.out.println("Second No After Swap " +second);

	}

}
```

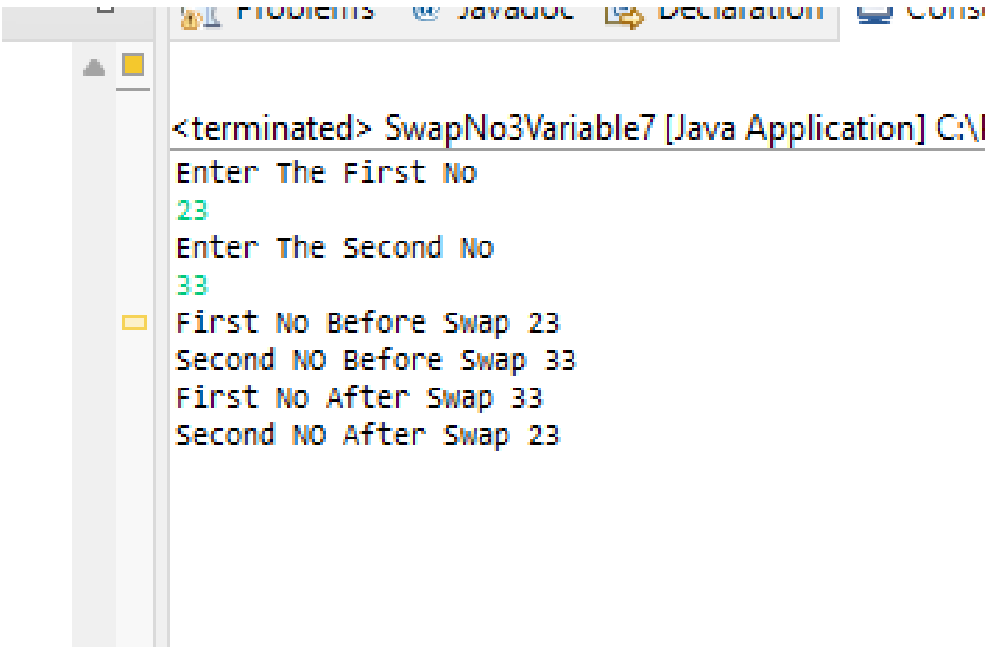
OUTPUT:-



Q 7 How to swap two numbers without using a third variable?

```
package assignment1;

import java.util.*;
public class SwapNo3Variable7 {

	public static void main(String[] args)
	{
		Scanner s=new Scanner(System.in);
		System.out.println("Enter The First No");
		int first=s.nextInt();
		System.out.println("Enter The Second No");
		int second=s.nextInt();

		System.out.println("First No Before Swap " +first);
		System.out.println("Second NO Before Swap " +second);

		first=first+second;

		second=first-second;

		first=first-second;

		System.out.println("First No After Swap " +first);
		System.out.println("Second NO After Swap " +second);

	}

}
```

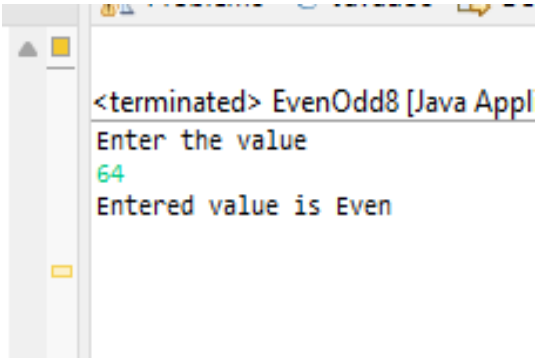
OUTPUT:-

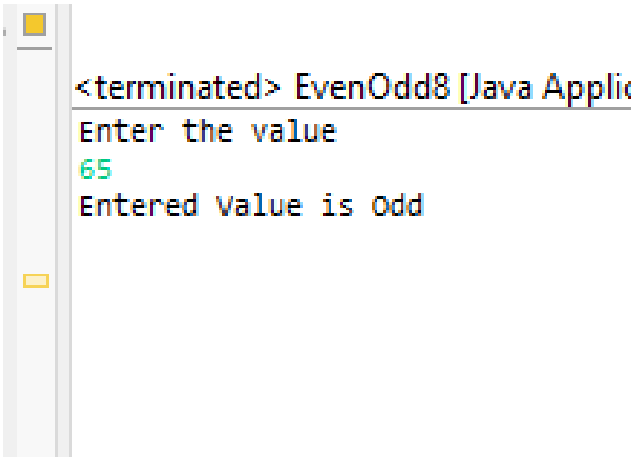


Q 8) wap to check is number is evenor odd..

```
package assignment1;

import java.util.*;
public class EvenOdd8 {

	public static void main(String[] args)
	{
		Scanner s=new Scanner (System.in);
		System.out.println("Enter the value");
		int val=s.nextInt();

		if (val%2==0)
		{
			System.out.println("Entered value is Even");
		}

		else
		{
			System.out.println("Entered Value is Odd");
		}
	}

}
```

OUTPUT:-



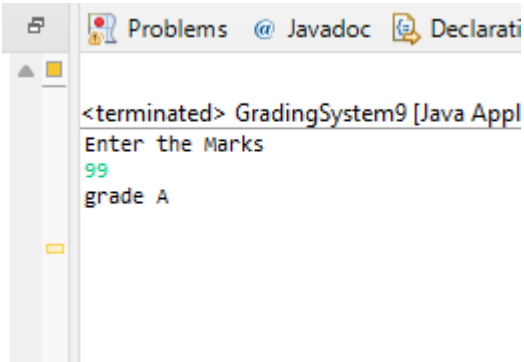


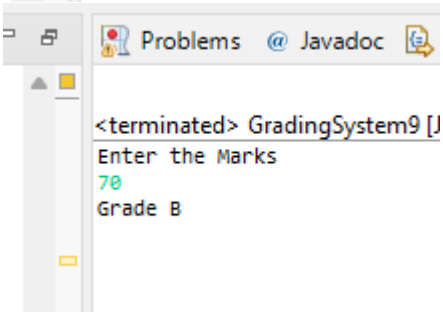
Q 9 A school has following rules for grading system:
a. Below 25 - F
b. 25 to 45 - E
c. 45 to 50 - D
d. 50 to 60 - C
e. 60 to 80 - B
f. Above 80 - A
Ask user to enter marks and print the corresponding grade .

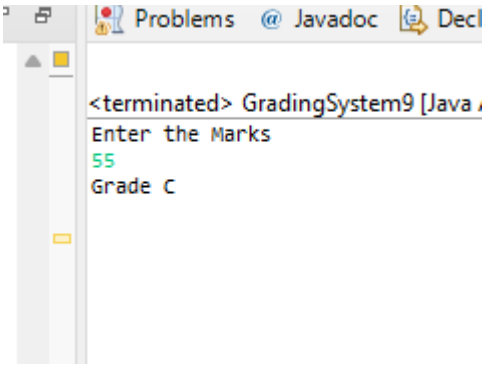
```
package assignment1;

import java.util.*;
public class GradingSystem9 {

	public static void main(String[] augs)
	{
		Scanner s=new Scanner (System.in);
		System.out.println("Enter the Marks");
		int marks=s.nextInt();

		if(marks<=100)
		{
			if(marks>80)
			{
				System.out.println("grade A");
			}

			else if (marks>60 && marks<80)
			{
				System.out.println("Grade B");
			}

			else if (marks>50 && marks<60)
			{
				System.out.println("Grade C");
			}

			else if (marks>45 && marks<50)
			{
				System.out.println("Grade D");
			}

			else if (marks>25 && marks<45)
			{
				System.out.println("Grade E");
			}

			else if (marks<25)
			{
				System.out.println("Grade F");
			}
		}
```

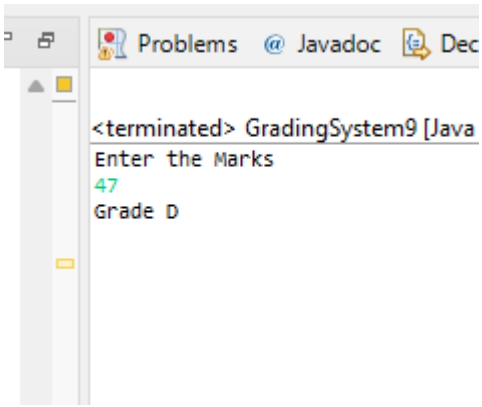
```
            else
            {
                  System.out.println("Entred marks is invalid ");
            }
      }

}
```

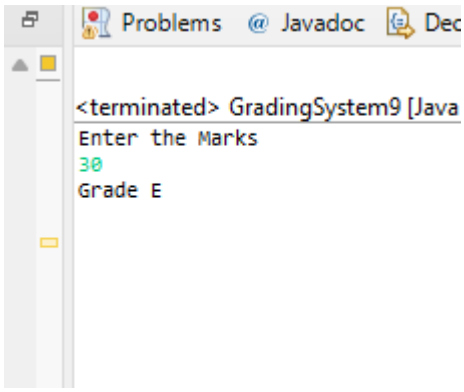
OUTPUT:-

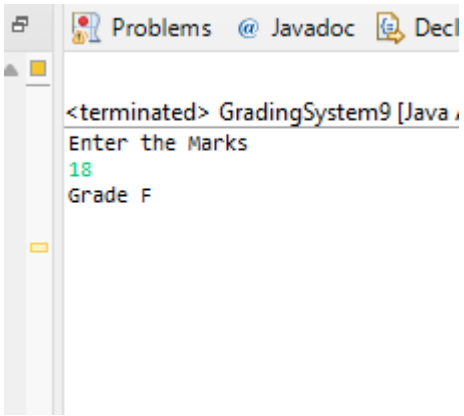


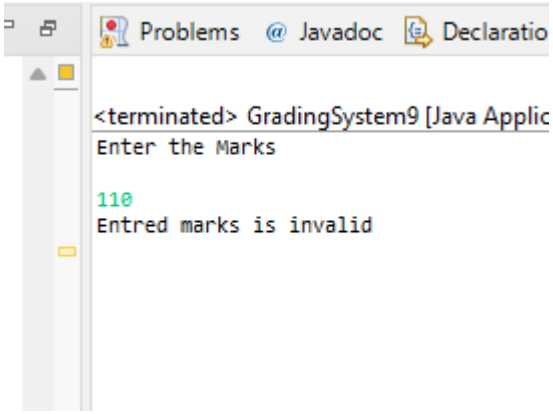





Problems
Javadoc
<terminated> GradingSystem9 [Java
Enter the Marks
47
Grade D


Problems
Javadoc
<terminated> GradingSystem9 [Java
Enter the Marks
30
Grade E


Problems
Javadoc
<terminated> GradingSystem9 [Java
Enter the Marks
18
Grade F


Problems
Javadoc
Declaratio
<terminated> GradingSystem9 [Java Applic
Enter the Marks
110
Entred marks is invalid

Q 10)wap to check greater number among three numbers.

```
package assignment1;

import java.util.*;

public class GreaterNumber10 {

	public static void main(String[] aurgs)
	{
		Scanner s=new  Scanner(System.in);
		System.out.println("Enter First NO");
		int a=s.nextInt();
		System.out.println("Enter Second NO");
		int b=s.nextInt();
		System.out.println("Enter third NO");
		int c=s.nextInt();

		if (a>b && a>c)
		{
			System.out.println("Greatest no is " +a);
		}

		else if (b>a && b>c)
		{
			System.out.println("Greatest no is " +b);
		}

		else
		{
			System.out.println("Greatest no is " +c);
		}
	}

}
```

OUTPUT:-