If else Statement Problem Sloving Solution.

1. Write a Java program to check Positive Integer.

Input:

```
Package java;
import java.util.Scanner;
 public class positive{
    public static void main(String[] args) {

    Scanner input = new Scanner (System.in);
    int num;

    System.out.print("Enter any integer : ");
    num = input.nextInt();

    if (num>0){
        System.out.println("Positive");
    }
        else if (num<0){
        System.out.println("Negative");
        }

        else {
         System.out.println("Equal To Zero");
        }

    }

}
```

Output:

```
java -cp /tmp/iyrjBOaofL/positive
Enter any integer : 25
Positive

=== Code Execution Successful ===
```

2.Write a java program to find even /odd number.

Input:

```
import java.util.Scanner;
 public class positive{
    public static void main(String[] args) {

    Scanner input = new Scanner (System.in);
    int num;
```

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

    if (num%2==0){
        System.out.println("Even");
    }


        else {
         System.out.println("odd");
        }

    }

}
```

Output:

```
java -cp /tmp/MTYByTRFIn/positive
Enter any number : 25
odd

=== Code Execution Successful ===
```

3.Write a JAVA program to Find Vowel /Consonant.

Input:

```
import java.util.Scanner;
 public class vowelconsonant{
    public static void main(String[] args) {

    Scanner input = new Scanner (System.in);
    char ch;
    System.out.print("Enter any number : ");
    ch = input.next().charAt(0);

    if (ch=='a'){
        System.out.println("Vowel");
    }
     else if (ch=='e'){
        System.out.println("Vowel");
    }

    else if (ch=='i'){
        System.out.println("Vowel");
    }
        else if (ch=='o'){
        System.out.println("Vowel");
    }
```

```
        else if (ch=='u'){
            System.out.println("Vowel");
          }


            else {
             System.out.println("Consonant");
            }

          }

        }
```

Output:

4.Write a Java Programm to find the age equal or not.

Input:

```
package Assignment_5;


import java.util.Scanner;


public class Voter { public static void main(String[] args){


Scanner scan = new Scanner(System.in);
int age ;


System.out.print("Enter your
```

```
age = "); age = scan.nextInt();


if(age>=18){

System.out.println("Valid


voter"); } else{


System.out.println("Invalid


voter "); }


}


}
```

Output:

5.Write a Java Programme To find Vowel & Consonant Using Logical Operator.

Input:

```
import java.util.Scanner;

public class vowelconsonant{

public static void main(String[] args) {


Scanner input = new Scanner (System.in);
char ch;
System.out.print("Enter any number : ");
ch = input.next().charAt(0);
```

```
if (ch== ‘a’ || ch== ‘e’ || ch== ‘i’ || ch == ‘o’ || ch== ‘u’) {
System.out.println(“Vowel”);

Else {
System.out.println(“Consonant”);
}



}


}
```

Output:

6.Write a java Programme to check capital or small letter.

Input:

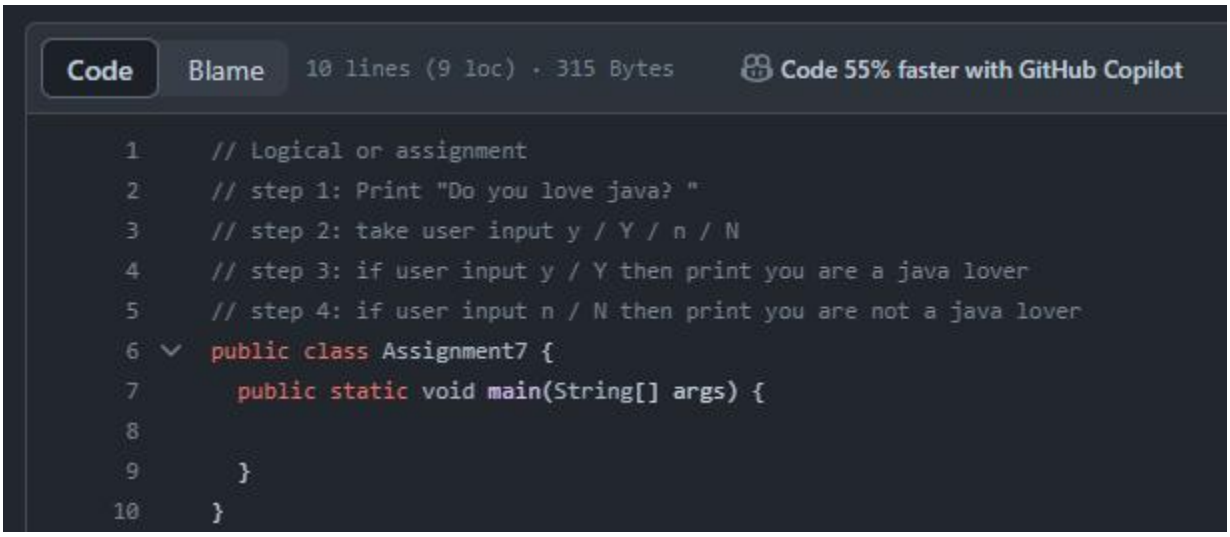
```
public class CapitalSmall{



public static void main (String [] args){
```

```
Scanner input = new Scanner(System.in);

Char ch;

System.out.print("Enter any letter : );

Char = input.next().chartAT(0);

if (ch>= 'a' && ch<='z'){

System.out.println("Small Letter");
}

else if (ch>='A' &&

ch<='Z'){ System.out.println("Capit

al Letter"); }
```

```
else {

System.out.println("Not a

Letter"); }

}
}
```

Output:

7. Write a Java Programme to using logical Operator .

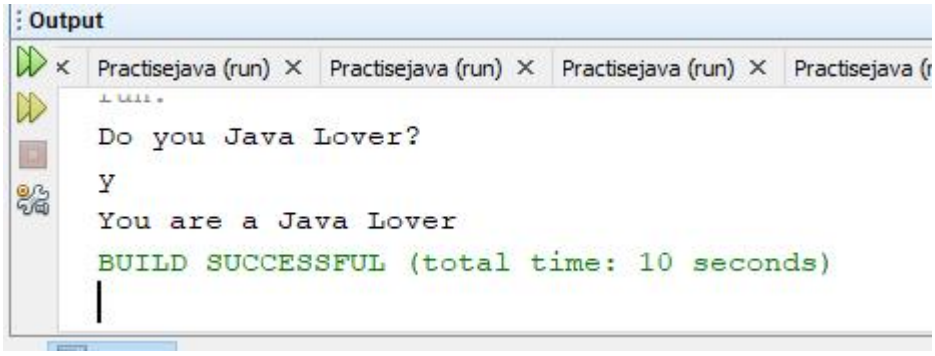


Input:

```
package javaapplication1;

import java.util.Scanner;

public class javalover {

 public static void main(String[] args) {

 Scanner input = new Scanner (System.in);

 char ans;

 System.out.print("Do you love java? If yes press y/Y, if No press n/n : ");  ans =

input.next().charAt(0);

 if (ans=='y' || ans=='Y'){

 System.out.println("You are a java lover");  }
```

```
else if (ans=='n' || ans=='N'){

System.out.println("You are not a java lover");  }

else{

System.out.println("Your Input Is Wrong");  }

}



}
```

Output:



8.Write a Java Prograaming using Logical AND.

Input :

```
package basicjava;

import java.util.Scanner;

public class Assignment8 {

    public static void main(String[] args) {

        Scanner input=new Scanner(System.in);

        char ch1, ch2;

        System.out.print("Are you fluent in English (Y/y/N/n):");

        ch1=input.next().charAt(0);

        System.out.print("Have you Passed Masters (Y/y/N/n):");
```

```
        ch2=input.next().charAt(0);

        if((ch1=='Y'||ch1=='y') &&(ch2=='Y'||ch2=='y'))

            System.out.println("Congratulations! You are elligible for the job interview.");

        else

            System.out.println("Sorry! You are not eligible for the job interview");

    }

}
```

Output:

```
run:
Are you fluent in English (Y/y/N/n):y
Have you Passed Masters (Y/y/N/n):n
Sorry! You are not eligible for the job interview
BUILD SUCCESSFUL (total time: 13 seconds)
```

---

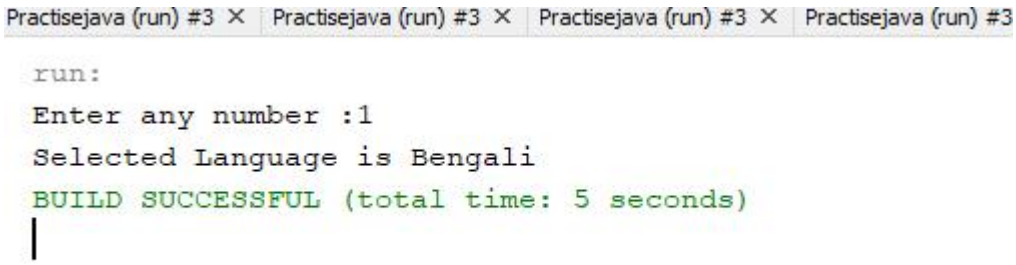
9. Write a Java Programme Using Switch.

```
// switch assignment: call center
// if user select option 1 then set language bengali
// if user select option 2 then set language hindi
// if user select option 3 then set language urdu
// for any other option set language english
public class Assignment9 {
  public static void main(String[] args) {
    // get the OPTION from user
    // use switch, case, break and default

    // Selected language is Bengali
    // Selected language is Hindi
    // Selected language is Urdu
    // Selected language is English
  }
}
```

Input:

```
public static void main(String[] args) {
      Scanner input = new Scanner(System.in);
      int number;
      System.out.print("Enter any number :");
      number = input.nextInt();

      switch(number){
          case 1:
            System.out.println("Selected Language is Bengali");
            break;
          case 2:
            System.out.println("Selected Language is Hindi");
            break;
          case 3:
            System.out.println("Selected Language is Urdu");
            break;
          default:
             System.out.println("Selected Language is English");

    }
  }
```

Output:

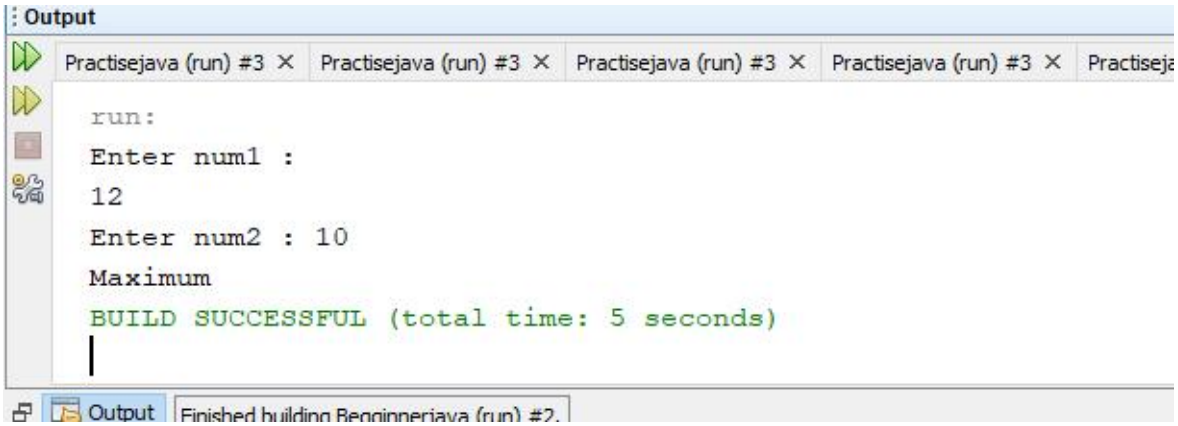


10. Write a Java Programme To find Maximum or Minimum.

Input:

```
package begginnerjava;
import java.util.Scanner;

public class MaximumMinimum {

    public static void main(String []args){

      Scanner input =  new Scanner(System.in);
     int num1,num2;

      System.out.println("Enter num1 : ");
      num1=input.nextInt();
      System.out.print("Enter num2 : ");
      num2 = input.nextInt();

      if (num1>num2){

          System.out.println("Maximum");

      }

      else if (num1<num2){

          System.out.println("Minimum");

      }

      else {

          System.out.println("Not equal");
      }


    }

}
```

Output:

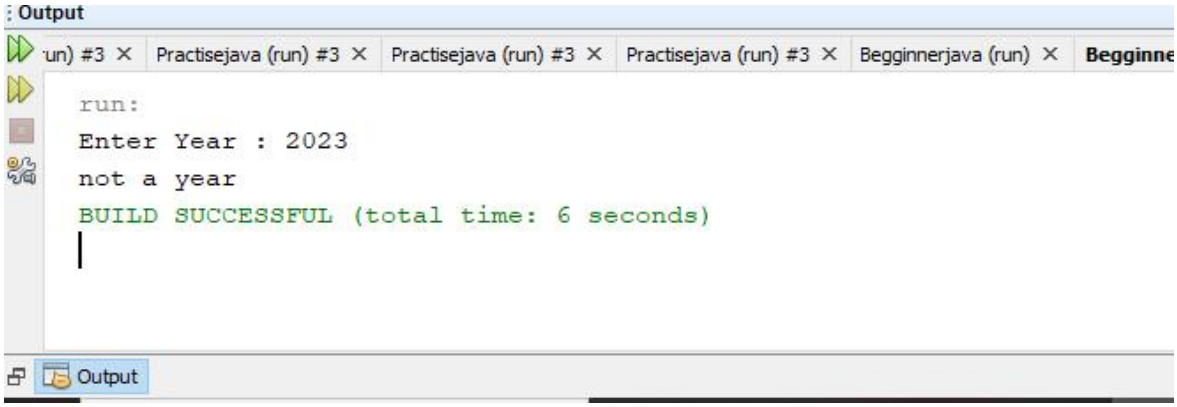


11. Write a java programme to find leap year.

Input:

```
package begginnerjava;

import java .util.Scanner;
public class leapyear {

    public static void main(String[] args){

       Scanner input =  new Scanner(System.in);
        int year;
       System.out.print("Enter Year : ");

       year = input.nextInt();

       if(year%400==0){

          System.out.println("Leap Year");

       }


       else if (year%4==0 && year%100!=0){

           System.out.println("Leap year");
       }
       else
       {
           System.out.println("not a year");

       }

    }

}
```

Output:

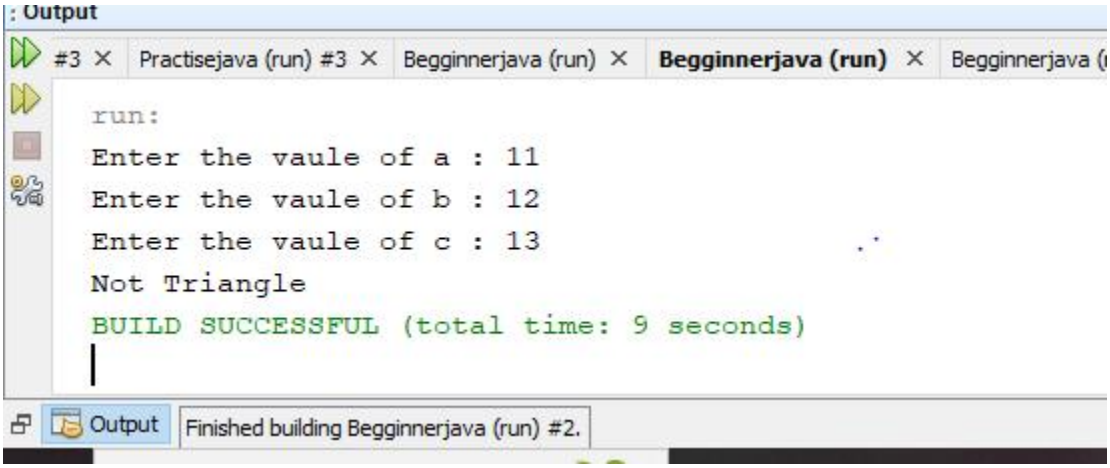


12. Write a Java Programme to check if a triangle is right triangle or not.

Input:

```
package begginnerjava;

import java.util.Scanner;1
public class rigthtriangle {

    public static void main(String [] args){

        Scanner input = new Scanner(System.in);

        int a,b,c;

        System.out.print("Enter the vaule of a : ");
        a = input.nextInt();

        System.out.print("Enter the vaule of b : ");
        b = input.nextInt();

        System.out.print("Enter the vaule of c : ");
        c = input.nextInt();

        if(a * a == b * b + c * c || b * b == a * a + c * c || c * c == a * a + b * b){

            System.out.println("Rigth Triangle");
        }

        else
        {
            System.out.println("Not Triangle");

        }
    }

}
```

Output:



13. Write a java program to find the letter grade and grade point from given marks.

Marks (%)	Letter Grade	Grade Point	Marks (%)	Letter Grade	Grade Point
80 and above	A+	4.00	55-59	B-	2.75
75-79	A	3.75	50-54	C+	2.50
70-74	A-	3.50	45-49	C	2.25
65-69	B+	3.25	40-44	D	2.00
60-64	B	3.00	Below 40	F	0.00

Input:

```
package begginnerjava;

import java.util.Scanner;

public class lettergrade {

    public static void main(String []args){
        Scanner input = new Scanner(System.in);

        int mark;

        System.out.print("Enter Your Marks : ");
        mark = input.nextInt();

        if(mark>100 || mark<0){
            System.out.println("Invalid Marks");

        }

        else if(mark>=80 && mark<=100){
            System.out.println("A+");

        }

         else if(mark>=80 && mark<=100){
            System.out.println("A+");

        }
```

```
        else if(mark>=75 && mark<=79){
           System.out.println("A");

        }

        else if(mark>=70 && mark<=74){
           System.out.println("A-");

        }

        else if(mark>=65 && mark<=69){
           System.out.println("B+");

        }
        else if(mark>=60 && mark<=64){
           System.out.println("B");


        }

        else if(mark>=55 && mark<=59){
           System.out.println("B-");

        }


        else if(mark>=50 && mark<=54){
           System.out.println("C+");


        }

        else if(mark>=45 && mark<=49){
           System.out.println("C");


        }

        else if   (mark>=44 && mark<=40){

           System.out.println("D");


        }

        else {

           System.out.println("F");
        }

    }

}
```

Output:

```
run:
Enter Your Marks : 89
A+
BUILD SUCCESSFUL (total time: 5 seconds)
```