

If else Statement Problem Solving 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/iyrjB0aofL/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");
        }

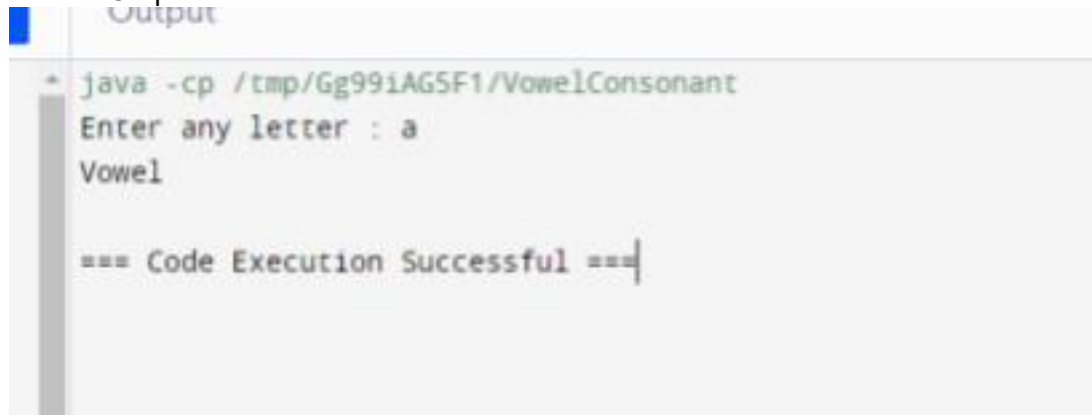
        else {
            System.out.println("Consonant");
        }

    }

}

```

Output:



```

Output
- java -cp /tmp/Gg99iAG5F1/VowelConsonant
Enter any letter : a
Vowel

=== Code Execution Successful ===

```

4. Write a Java Program 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:

Output

```
java -cp /tmp/hryRBS6YsM/Voter  
Enter your age = 18  
Valid voter  
  
=== Code Execution Successful ===|
```

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:

```
Output  
java -cp /tmp/UHJAMHFgrq/vowelconsonant  
Enter any number : x  
Consonant  
  
=== Code Execution Successful ===
```

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().charAt(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"); }
```

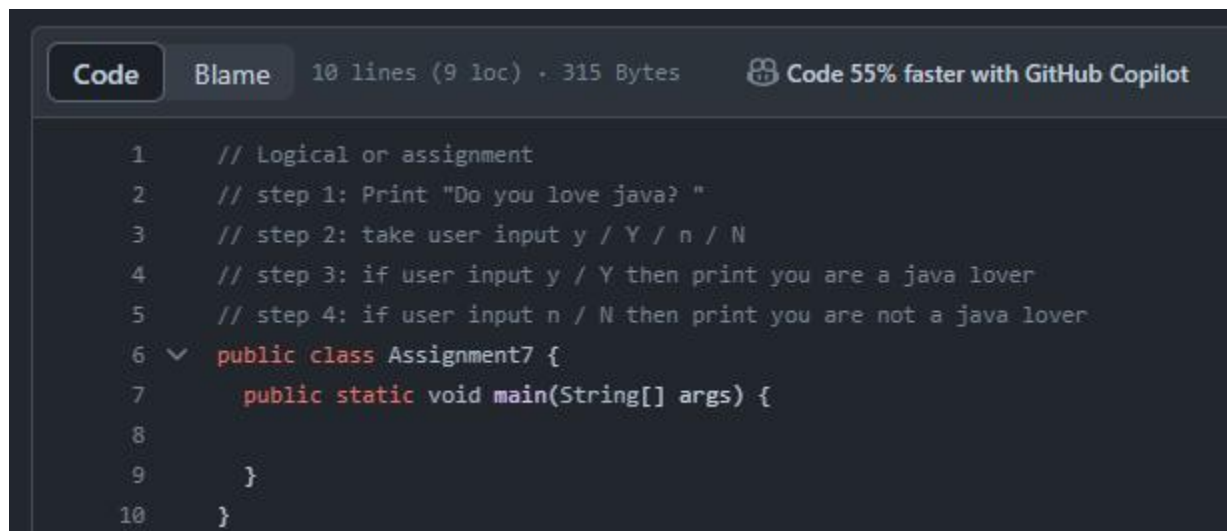
```
}
```

Output:



```
BeginnerJava (run) x BeginnerJava (run) #2 X
Enter any letter : i
Not a letter
BUILD SUCCESSFUL (total time: 3 seconds)
```

7. Write a Java Programme to using logical Operator .

A screenshot of a code editor interface. At the top, there are tabs for 'Code' and 'Blame'. To the right of the tabs, it says '10 lines (9 loc) · 315 Bytes'. Further right, there is a GitHub logo and the text 'Code 55% faster with GitHub Copilot'. The code is written in Java and is as follows:

```
1 // Logical or assignment
2 // step 1: Print "Do you love java? "
3 // step 2: take user input y / Y / n / N
4 // step 3: if user input y / Y then print you are a java lover
5 // step 4: if user input n / N then print you are not a java lover
6 public class Assignment7 {
7     public static void main(String[] args) {
8
9     }
10 }
```

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"); }
```

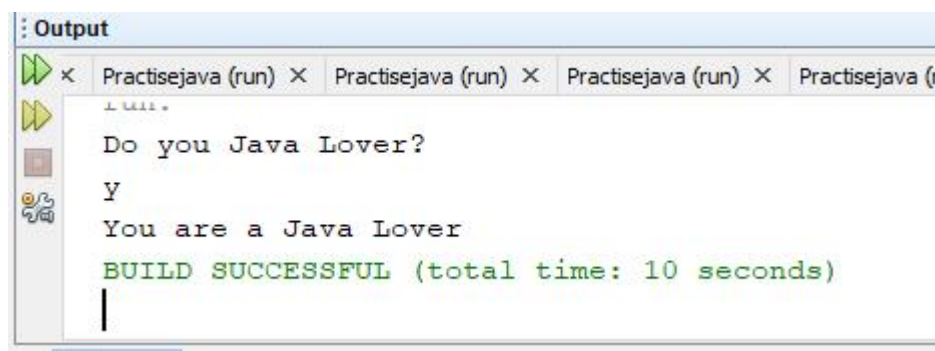
```
else{
```

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

```
}
```

```
}
```

Output:



```
Output
Practisejava (run) X Practisejava (run) X Practisejava (run) X Practisejava (run) X
Do you Java Lover?
Y
You are a Java Lover
BUILD SUCCESSFUL (total time: 10 seconds)
```

8. Write a Java Program using Logical AND.

A screenshot of a code editor interface. At the top, there's a header bar with tabs for 'Code' and 'Blame'. The 'Code' tab is active, showing a file named '11 lines (10 loc) - 469 Bytes'. To the right of the header, there's a badge that says 'Code 55% faster with GitHub Copilot'. Below the header, the code is displayed in a dark-themed editor. The code is a Java program for a logical AND assignment. It includes comments for each step: Step 1 asks if the candidate has completed their masters, Step 2 asks if they are fluent in English, Step 3 checks if they have passed masters and are fluent in English, and Step 4 prints a message if they are eligible for a job interview. The code is enclosed in a public class named 'Assignment8' with a main method.

```
1 // Logical AND assignment
2 // Check eligible candidate
3 // Step 1: Ask the candidate have you completed your masters? y/n
4 // Step 2: Ask the candidate are you fluent in English? y/n
5 // Step 3: if the candidate has passed masters and also have fluent english skill then print you are eligible to for the job interview
6 // Step 4: else print Sorry, you are not eligible to for the job interview
7 public class Assignment8 {
8     public static void main(String[] args) {
9
10    }
11 }
```

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 eligible 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:

Practisejava (run) #3 × Practisejava (run) #3 × Practisejava (run) #3 × Practisejava (run) #3

```
run:
Enter any number :1
Selected Language is Bengali
BUILD SUCCESSFUL (total time: 5 seconds)
|
```

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
```

```
        {
```

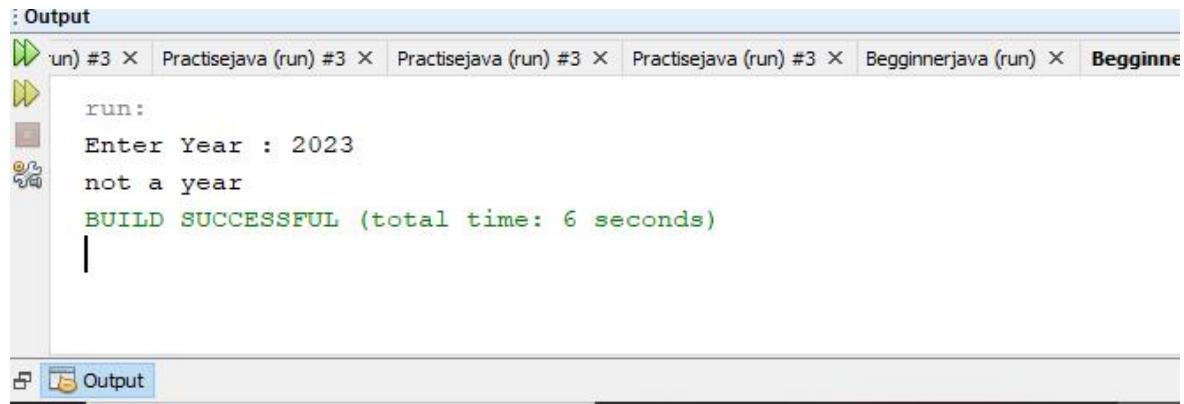
```
            System.out.println("not a year");
```

```
        }
```

```
    }
```

```
}
```

Output:



```
run:
Enter Year : 2023
not a year
BUILD SUCCESSFUL (total time: 6 seconds)
|
```

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

Input:

```
package beginnerjava;
```

```
import java.util.Scanner;
```

```
public class righthtriangle {
```

```
    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:


```

Output
#3 X Practisejava (run) #3 X Begginnerjava (run) X Begginnerjava (run) X Begginnerjava (
run:
Enter the vaule of a : 11
Enter the vaule of b : 12
Enter the vaule of c : 13
Not Triangle
BUILD SUCCESSFUL (total time: 9 seconds)
Output Finished building Begginnerjava (run) #2.

```

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)

|