

//1.WAJP to find the biggest of three numbers by using else if statement

```
import java.util.*;
class Biggest34
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the 1st number: ");
        int n1=sc.nextInt();
        System.out.print("Enter the 2nd number: ");
        int n2=sc.nextInt();
        System.out.print("Enter the 3rd number: ");
        int n3=sc.nextInt();
        if(n1>n2&& n1>n3)
        {
            System.out.print("Biggest number is: "+n1);
        }
        else if(n2>n3)
        {
            System.out.print("Biggest number is: "+n2);
        }
        else
        {
            System.out.print("Biggest number is: "+n3);
        }
    }
}
```

//2.WAJP to find the biggest of four numbers by using else if statement

```
import java.util.*;
class Biggest34
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the 1st number: ");
        int n1=sc.nextInt();
        System.out.print("Enter the 2nd number: ");
        int n2=sc.nextInt();
        System.out.print("Enter the 3rd number: ");
        int n3=sc.nextInt();
        System.out.print("Enter the 4th number: ");
        int n4=sc.nextInt();
        if(n1>n2&& n1>n3&& n1>n4)
        {
            System.out.print("Biggest number is: "+n1);
        }
    }
}
```

```

        else if(n2>n3&& n2>n4)
        {
            System.out.print("Biggest number is: "+n2);
        }
        else if(n3>n4)
        {
            System.out.print("Biggest number is: "+n3);
        }
        else
        {
            System.out.print("Biggest number is: "+n4);
        }
    }
}

```

//3.WAJP that takes a year from user and print whether that year is a leap year or not

```

import java.util.*;
class CheckLeapYear
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the a year: ");
        int n=sc.nextInt();
        if(n%4==0)
        {
            System.out.println(n+" is a leap year");
        }
        else
        {
            System.out.println(n+" is not a leap year");
        }
    }
}

```

//4.WAJP that take a character as user input and check whether the character is an alphabet or not.

```

import java.util.*;
class CheckAlphabet
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
    }
}

```

```

System.out.print("Enter the a character: ");
char c=sc.next().charAt(0);
    if((c>='a'&&c<='z')||(c>='A'&&c<='Z'))
    {
        System.out.println(c+" is An Alphabet");
    }
    else
    {
        System.out.println(c+" is not An Alphabet");
    }
}
}

```

//5.WAJP that take a character as user input and check whether the character is lowercase (a-z) or uppercase (A-Z)

```

import java.util.*;
class CheckLowerUpper
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the a character: ");
        char c=sc.next().charAt(0);
        if(c>='a'&&c<='z')
        {
            System.out.println(c+" is A Lowercase Alphabet");
        }
        else if(c>='A'&&c<='Z')
        {
            System.out.println(c+" is An Uppercase Alphabet");
        }
        else
        {
            System.out.println(c+" is not an Alphabet");
        }
    }
}

```

//6.WAJP to check whether the number is divisible by 5 and 11 or not.

```

import java.util.*;
class CheckDivisibility511
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);

```

```

        System.out.print("Enter the number: ");
        int n=sc.nextInt();
        if(n%5==0&& n%11==0)
        {
            System.out.println(n+" is divisible by 5 and 11 both");
        }
        else
        {
            System.out.println(n+" is not divisible by 5 and 11 both");
        }
    }
}

```

//7.WAJP to check whether it is vowel or consonant.

```

import java.util.Scanner;
class CheckVowel
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the a character: ");
        char x=sc.next().charAt(0);

        if(x=='a' || x=='e' || x=='i' || x=='o' || x=='u' || x=='A' || x=='E' || x=='I' || x=='O' || x=='U')
        {
            System.out.print(x+" is a vowel");
        }
        else if((x>='a'&&x<='z') || (x>='A'&&x<='Z'))
        {
            System.out.print(x+" is a consonant");
        }
        else
        {
            System.out.print(x+" is not an alphabet");
        }
    }
}

```

//8.WAJP to check whether it is an alphabet,digit or special number.

```

import java.util.Scanner;
class CheckAlphabetDigit
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);

```

```

System.out.print("Enter a character: ");
char x=sc.next().charAt(0);
if((x>='a'&&x<='z')||(x>='A'&&x<='Z'))
{
    System.out.print(x+" is an Alphabet");
}
else if(x>=48&&x<=57)
{
    System.out.print(x+" is a digit");
}
else
{
    System.out.println(x+" is a special character");
}
}
}

```

//9.WAJP that take a character as user input and check whether the character is lowercase or uppercase alphabet.

```

import java.util.*;
class CheckLowerUpper
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the a character: ");
        char c=sc.next().charAt(0);
        if(c>='a'&&c<='z')
        {
            System.out.println(c+" is A Lowercase Alphabet");
        }
        else if(c>='A'&&c<='Z')
        {
            System.out.println(c+" is An Uppercase Alphabet");
        }
        else
        {
            System.out.println(c+" is not an Alphabet");
        }
    }
}

```

//10.WAJP to input all sides of a triangle and check whether triangle is valid or not.

```
import java.util.Scanner;
class CheckTriangle
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the 1st side: ");
        int x=sc.nextInt();
        System.out.print("Enter the 2nd side: ");
        int y=sc.nextInt();
        System.out.print("Enter the 3rd side: ");
        int z=sc.nextInt();
        if((x+y)>z&&(y+z)>x&&(x+z)>y)
        {
            System.out.println(x+","+y+","+z+" Are the valid side of the
tringle");
        }
        else
        {
            System.out.println(x+","+y+","+z+" Are not valid side of the
tringle");
        }
    }
}
```

//11.WAJP to input all angle of a triangle and check whether triangle is valid or not.

```
import java.util.Scanner;
class CheckTriangle
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the 1st angle: ");
        int x=sc.nextInt();
        System.out.print("Enter the 2nd angle: ");
        int y=sc.nextInt();
        System.out.print("Enter the 3rd angle: ");
        int z=sc.nextInt();
        if(x+y+z==180)
        {
            System.out.println(x+","+y+","+z+" formed a valid triagle");
        }
        else
    }
```

```

        {
            System.out.println(x+","+y+","+z+" not formed a valid triagle");
        }
    }
}

```

//12.WAJP to input all angle of a triangle and check whether triangle is Equilateral, Isosceles or Scalene.

```

import java.util.Scanner;
class CheckEquilateral
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the 1st angle: ");
        int x=sc.nextInt();
        System.out.print("Enter the 2nd angle: ");
        int y=sc.nextInt();
        System.out.print("Enter the 3rd angle: ");
        int z=sc.nextInt();
        if((x==y&&y==z)&&(x+y+z==180))
        {
            System.out.println(x+","+y+","+z+" formed an Equilateral
triangle");
        }
        else if((x==y||y==z||z==x)&&(x+y+z==180))
        {
            System.out.println(x+","+y+","+z+" formed an Isosceles triagle");
        }
        else if(x+y+z==180)
        {
            System.out.println(x+","+y+","+z+" formed an Scalene triagle");
        }
        else
        {
            System.out.println(x+","+y+","+z+" not formed a triagle");
        }
    }
}

```

//13.WAJP to find the real root of a quadratic equation.

```

import java.util.Scanner;
class QuadraticRoot

```

```

{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the value of a: ");
        double a=sc.nextDouble();
        System.out.print("Enter the value of b: ");
        double b=sc.nextDouble();
        System.out.print("Enter the value of c: ");
        double c=sc.nextDouble();
        double p=(b*b-(4*a*c));
        if(p>=0)
        {
            System.out.println("the root will be
"+((( -b)+Math.sqrt(p))/(2*a))+ " and "+((( -b)-Math.sqrt(p))/(2*a)));
        }
        else
        {
            System.out.println("Roots are not real");
        }
    }
}

```

//WAJP to calculate % profit and % loss after taking cost price and selling price as user input.

```

import java.util.Scanner;
class ProfitLoss
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the cost price: ");
        double cp=sc.nextDouble();
        System.out.print("Enter the selling price: ");
        double sp=sc.nextDouble();
        if(cp>sp)
        {
            System.out.println("You have loss of:"+(cp-sp));
            double l=(cp-sp)*100/cp;
            System.out.println("You have %loss of:"+l+"%");
        }
        else
        {
            System.out.println("You have profit of:"+(sp-cp));
            double l=(sp-cp)*100/cp;
            System.out.println("You have %profit of:"+l+"%");
        }
    }
}

```


}
}
}