

//Java Program to demonstate the use of if statement.

```
public class IfExample {  
    public static void main(String[] args) {  
        //defining an 'age' variable  
        int age=20;  
        //checking the age  
        if(age>18){  
            System.out.print("Age is greater than 18");  
        }  
    }  
}
```

//A Java Program to demonstrate the use of if-else statement.

//It is a program of odd and even number.

```
public class IfElseExample {  
    public static void main(String[] args) {  
        //defining a variable  
        int number=13;  
        //Check if the number is divisible by 2 or not  
        if(number%2==0){  
            System.out.println("even number");  
        }else{  
            System.out.println("odd number");  
        }  
    }  
}
```

//A year is leap, if it is divisible by 4 and 400. But, not by 100.

```
public class LeapYearExample {  
    public static void main(String[] args) {  
        int year=2020;  
        if(((year % 4 ==0) && (year % 100 !=0)) || (year % 400==0)){  
            System.out.println("LEAP YEAR");  
        }  
        else{  
            System.out.println("COMMON YEAR");  
        }  
    }  
}
```

//Java Program to demonstrate the use of If else-if ladder.

//It is a program of grading system for fail, D grade, C grade, B grade, A grade and A+.

```
public class IfElseIfExample {  
public static void main(String[] args) {  
    int marks=65;  
    if(marks<50){  
        System.out.println("fail");  
    }  
    else if(marks>=50 && marks<60){  
        System.out.println("D grade");  
    }  
    else if(marks>=60 && marks<70){  
        System.out.println("C grade");  
    }  
    else if(marks>=70 && marks<80){  
        System.out.println("B grade");  
    }  
    else if(marks>=80 && marks<90){  
        System.out.println("A grade");  
    }else if(marks>=90 && marks<100){  
        System.out.println("A+ grade");  
    }else{  
        System.out.println("Invalid!");  
    } } }
```

//Java Program to demonstrate the use of Nested If Statement.

```
public class JavaNestedIfExample {  
public static void main(String[] args) {  
    //Creating two variables for age and weight  
    int age=20;  
    int weight=80;  
    //applying condition on age and weight  
    if(age>=18){  
        if(weight>50){  
            System.out.println("You are eligible to donate blood");  
        } } } }
```

//Java Program to demonstrate the use of Nested If Statement.

```
public class JavaNestedIfExample2 {  
public static void main(String[] args) {  
    //Creating two variables for age and weight  
    int age=25;  
    int weight=48;  
    //applying condition on age and weight  
    if(age>=18){  
        if(weight>50){  
            System.out.println("You are eligible to donate blood");  
        } else{  
            System.out.println("You are not eligible to donate blood");  
        }  
    }  
    else{  
        System.out.println("Age must be greater than 18");  
    }  
} }
```

//Java Program to demonstrate the use of switch Statement

```
public class SwitchVowelExample {  
public static void main(String[] args) {  
    char ch='O';  
    switch(ch)  
    {  
        case 'a':  
            System.out.println("Vowel");  
            break;  
        case 'e':  
            System.out.println("Vowel");  
            break;  
        case 'i':  
            System.out.println("Vowel");  
            break;  
        case 'o':  
            System.out.println("Vowel");  
            break;  
    }
```

```

    case 'u':
        System.out.println("Vowel");
        break;
    case 'A':
        System.out.println("Vowel");
        break;
    case 'E':
        System.out.println("Vowel");
        break;
    case 'I':
        System.out.println("Vowel");
        break;
    case 'O':
        System.out.println("Vowel");
        break;
    case 'U':
        System.out.println("Vowel");
        break;
    default:
        System.out.println("Consonant");
}

```

//Java Program to demonstrate the use of while Statement

```

class PalindromeExample{
    public static void main(String args[]){
        int r,sum=0,temp;
        int n=454;//It is the number variable to be checked for palindro
me

```

```

temp=n;
while(n>0){
    r=n%10; //getting remainder
    sum=(sum*10)+r;
    n=n/10;
}

```

```
    if(temp==sum)
        System.out.println("palindrome number ");
    else
        System.out.println("not palindrome");
} }
```

//Java Program to print a number

```
public class WhileExample {
    public static void main(String[] args) {
        int i=1;
        while(i<=10){
            System.out.println(i);
            i++;
        } } }
```

//Java Program to demonstrate the use of do while Statement

```
public class DoWhileExample {
    public static void main(String[] args) {
        int i=1;
        do{
            System.out.println(i);
            i++;
        }while(i<=10);
    } }
```