

1)

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner nm=new Scanner (System.in);
        System.out.println("input a number");
        int num=nm.nextInt();
        if (num > 0){
            System.out.println("number is positive"+ num);
        }else if (num == 0){
            System.out.println("number is zero");
        }else{
            System.out.println("number is negative");
        }
    }
}
```

2)

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner nm=new Scanner (System.in);
        System.out.println("input a number");
        int num=nm.nextInt();
        int x= num % 2;
        if (x == 0){
            System.out.println("number is even" + num);
        }else if (x != 0){
            System.out.println("number is odd" + num);
        }
    }
}
```

3)

```
import java.util.Scanner;
class main{
    public static void main(String[] args){
        Scanner nd=new Scanner(System.in);
        System.out.println("input number 1");
        int num1=nd.nextInt();
```

```

        Scanner ne=new Scanner(System.in);
        System.out.println("input number 2");
        int num2=ne.nextInt();
        if(num1 > num2){
            System.out.println("number 1 is the largest");
        }else {
            System.out.println("number 2 is the largest");
        }
    }
}

```

4)

```

import java.util.Scanner;
class main{
    public static void main(String[] args){
        Scanner nd=new Scanner(System.in);
        System.out.println("input number 1");
        int num1=nd.nextInt();
        Scanner ne=new Scanner(System.in);
        System.out.println("input number 2");
        int num2=ne.nextInt();
        Scanner ni=new Scanner(System.in);
        System.out.println("input number 3");
        int num3=ni.nextInt();
        if(num1 > num2 && num1 > num3){
            System.out.println("number 1 is the largest");
        }else if(num2 > num1 && num2 > num3){
            System.out.println("number 2 is the largest");
        }else{
            System.out.println("number 3 is the largest");
        }
    }
}

```

5)

```

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

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        System.out.println("enter the year");
        int num=year.nextInt();
        int leap= num % 400;
        if (leap == 0){
            System.out.println("the year" + + num + "is a leap year");
        }else {
            System.out.println("the year"+ + num + "is not a leap year");
        }
    }
}

```

6)

```

import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner vchar=new Scanner (System.in);
        System.out.println("enter the character");
        char ch=vchar.next().charAt(0);
        if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
    {
        System.out.println("the character is vowel");
    }else {
        System.out.println("the character is consonant");
    }
    }
}

```

7)

```

import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        Scanner nm = new Scanner(System.in);
        System.out.println("Enter any character: ");

        char ch = nm.next().charAt(0);

        if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {
            System.out.println("It is an Alphabet");
        }
        else if (ch >= '0' && ch <= '9') {

```

```

        System.out.println("It is a Number");
    }
    else {
        System.out.println("It is a Special Character");
    }
}
}

```

8)

```

import java.util.Scanner;
class main{
    public static void main(String[] args){
        Scanner in=new Scanner(System.in);
        System.out.println("enter your marks" );
        int marks = in.nextInt();
        char grade;
        if (marks >= 0 && marks <= 100){

            if(marks >=89){
                grade= 'A';
            }else if(marks >=79){
                grade='B';
            }else if(marks >=69){
                grade= 'C';
            }else if(marks >=59){
                grade = 'D';
            }else if(marks >=49){
                grade = 'E';
            }else{
                grade = 'F';
            }

            System.out.println("your grade for the given marks is: " + grade);

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

```

9)

```
import java.util.Scanner;
class Main{
    public static void main(String[] args){
        Scanner dd=new Scanner(System.in);
        System.out.println("Select from 1-7 days from this");
        int day=dd.nextInt();
        switch(day) {
            case 1: System.out.println("Monday");
                    break;

            case 2: System.out.println("Tuesday");
                    break;

            case 3: System.out.println("Wednesday");
                    break;

            case 4: System.out.println("Thursday");
                    break;

            case 5: System.out.println("Friday");
                    break;

            case 6: System.out.println("Saturday");
                    break;

            case 7: System.out.println("Sunday");
                    break;

            default:
                System.out.println("INVALID NUMBER ");
        }
    }
}
```

10)

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

```
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        char operator;
        double number1, number2, result;

        System.out.println("Choose an operator: +, -, *, or /");
        operator = sc.next().charAt(0);

        System.out.println("Enter first number");
        number1 = sc.nextDouble();

        System.out.println("Enter second number");
        number2 = sc.nextDouble();

        switch (operator) {
            case '+':
                result = number1 + number2;
                System.out.println(number1 + " + " + number2 + " = " + result);
                break;

            case '-':
                result = number1 - number2;
                System.out.println(number1 + " - " + number2 + " = " + result);
                break;

            case '*':
                result = number1 * number2;
                System.out.println(number1 + " * " + number2 + " = " + result);
                break;

            case '/':
                if (number2 != 0) {
                    result = number1 / number2;
                    System.out.println(number1 + " / " + number2 + " = " + result);
                } else {
                    System.out.println("Error! Division by zero is not allowed.");
                }
                break;

            default:
                System.out.println("Invalid operator!");
                break;
        }
    }
}
```

```
    }  
}  
}
```

11)

```
import java.util.Scanner;  
class main{  
    public static void main(String[] args){  
        Scanner sc = new Scanner(System.in);  
        System.out.println("enter the number");  
        double num=sc.nextDouble();  
        if(num%5==0 || num%11 == 0){  
            System.out.println("the number is divisible by 5 or 11");  
        }else{  
            System.out.println("the number is not divisible by 5 or 11");  
        }  
    }  
}}
```