

1.To check number is positive negative or zero:

```
2 import java.util.Scanner;
3 public class Code_if1 {
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         int num=sc.nextInt();
7         if(num>0)
8         {
9             System.out.println("Positive number");
10        }
11        else if(num<0)
12        {
13            System.out.println("Negative number");
14        }
15        else
16        {
17            System.out.println("Zero");
18        }
19    }
20 }
21 }
22 }
```

<terminated>
0
Zero

2. Write a program to check if a given integer number is odd or even:

```
2 import java.util.Scanner;
3 public class Code_if2 {
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         int num=sc.nextInt();
7         if(num%2==0)
8         {
9             System.out.println("Even");
10        }
11        else
12        {
13            System.out.println("odd");
14        }
15    }
16 }
17 }
18 }
19 }
```

<terminated>
345
odd

3.Initialize two characters variable in a program and display the character in alphabetical order:

```
2 import java.util.Scanner;
3 public class Code_if3 {
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         char ch = sc.next().charAt(0);
7         char ch1= sc.next().charAt(0);
8         if(ch<ch1)
9         {
10            System.out.println(ch+" "+ch1);
11        }
12        else
13        {
14            System.out.println(ch1+" "+ch);
15        }
16    }
17 }
18 }
19 }
```

<terminated> Code_if3
h
a
a h

4. Initialize a character variable in a program and print the initialize datatype:

```
import java.util.Scanner;
public class Code_if4 {
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);

        char ch=sc.next().charAt(0);
        if(ch>='A'&&ch<='z' || ch>='a'&&ch<='z')
        {
            System.out.println("Alphathet");
        }
        else if(ch>='0'&&ch<='9')
        {
            System.out.println("Digit");
        }
        else
        {
            System.out.println("Special Character");
        }
    }
}
```

<terminated> Code_if4 [Java Application]

Special Character

5. Write a program to accept gender ("Male" or "Female") and age and print the percentage of interest based on the given conditions:

```
import java.util.Scanner;
public class Code_if6 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String gen=sc.next();
        int age=sc.nextInt();
        if(gen.equals("female"))
        {
            if(age>=1 && age<=58)

                System.out.println("The percentage of interest is 8.2%");

            else if(age>=59&&age<=100)

                System.out.println("The percentage of interest is 9.2%");

        }
        else if(gen.equals("male"))
        {
            if(age>=1 && age<=58)

                System.out.println("The percentage of interest is 8.4%");

            else if(age>=59&&age<=100)

                System.out.println("The percentage of interest is 10.5%");

        }
    }
}
```

<terminated> Code_if6 [Java Application]
female
56
The percentage of interest is 8.2%

6. Initialize a character variable with an alphabet in a program:

```
2 import java.util.Scanner;
3 public class Code_if5 {
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         char ch=sc.next().charAt(0);
7         if(ch>='A'&&ch<='Z')
8         {
9             System.out.println(Character.toLowerCase(ch));
10            //System.out.println(ch);
11        }
12        else if(ch>='a'&&ch<='z')
13        {
14            System.out.println(Character.toUpperCase(ch));
15        }
16    }
17 }
18 }
```

<terminate
A
a