

Looping statement

- For loop
- While loop
- Do-while loop
- For-each loop

Loop:-

- When ever want to repeat certain statements several times then we should write those statements inside loop body

For loop:

Syntax :-

```
for(initialization; condition; incr/decr)
{
    //code
}
```

Program:-

```
import java.util.Scanner;
class text{
    public static void main(String[] args) {
        System.out.print("enter any number: ");
        Scanner obj=new Scanner(System.in);
        int num=obj.nextInt();
        for(int i=1; i<=10; i++){
            System.out.println(i*num);
        }
    }
}
OUTPUT- enter any number: 2
2
4
6
8
10
12
14
16
18
20
```

While loop:

Syntax:-

```
while(condition){  
    //code  
}
```

Program:-

```
import java.util.Scanner;  
  
class text {  
    public static void main(String[] args) {  
        System.out.print("enter any number: ");  
        Scanner obj = new Scanner(System.in);  
        int num = obj.nextInt();  
        while (num >= 0) {  
            if (num % 2 == 0) {  
                System.out.print("even number:");  
                break;  
            } else {  
                System.out.print("odd number: ");  
                break;  
            }  
        }  
    }  
}  
  
OUTPUT:- enter any number: 2  
even number
```

do –while loop

syntax:-

```
do{  
    statement;  
    incr/decr  
}  
while(condition);
```

Program:-

```
import java.util.Scanner;  
  
class text {  
    public static void main(String[] args) {  
        System.out.print("enter any number: ");
```

```

Scanner obj = new Scanner(System.in);
int num = obj.nextInt();
do {
    System.out.println(num + " ");
    ++num;
} while (num <= 10);

}
}
enter any number: 1
1
2
3
4
5
6
7
8
9
10

```

For-each loop

Syntax:-

```

for(dataType item : array) {
    ...
}

```

Program:-

```

class text {
    public static void main(String[] args) {
        int num[] = { 1, 2, 3, 4, 5, 6, 7 };
        for (int i : num) {
            System.out.println(i);
        }
    }
}

```

OUTPUT: _

```

1
2
3
4
5
6
7

```

