

Example 1 | while loop

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {
        Scanner s= new Scanner(System.in);

        System.out.println("Enter marks1 and marks2 :");
        int marks1 = s.nextInt();
        int marks2 = s.nextInt();
        System.out.println(" marks1  :" + marks1);
        System.out.println(" marks2  :" + marks2);

        int i=1;

        while ((marks1+marks2)<=200) {

            System.out.println("----- cycle |" + i);
            System.out.println("welcome |Total is
" +(marks1+marks2));

            marks1+=10;
            marks2+=15;
            System.out.println(" MODIFIED | marks1  :" +
marks1 + " marks2  :" + marks2);
            i++;
        }

        System.out.println("Thank you");

    }
```

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```
}
```

Enter marks1 and marks2 :

55 65

marks1 :55

marks2 :65

----- cycle |1

welcome |Total is 120

MODIFIED | marks1 :65 marks2 :80

----- cycle |2

welcome |Total is 145

MODIFIED | marks1 :75 marks2 :95

----- cycle |3

welcome |Total is 170

MODIFIED | marks1 :85 marks2 :110

----- cycle |4

welcome |Total is 195

MODIFIED | marks1 :95 marks2 :125

Thank you

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Example 2 | While loop

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {

        Scanner s= new Scanner(System.in);
        int i=1,n;
        boolean state=true;

        System.out.println("Enter n :");
        n = s.nextInt();

        while (state) {

            if(i>=n)
            {
                state=false;
            }

            System.out.println("Enter name :");
            String name = s.next();
            System.out.println("hi " +name);

            i++;

        }

        System.out.println("Thank you");

    }

}
```

Loop Control

Break

stops execution of loop and comes out of loop.

break;

example:

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {

        Scanner s = new Scanner(System.in);
        int i = 1, n;

        System.out.println("Enter n :");
        n = s.nextInt();

        while (true) {
            System.out.println("Enter name :");
            String name = s.next();

            System.out.println("hi " + name);
            i++;

            if (i > n)
                break; //breaks the loop and comes out of while loop
        }

        System.out.println("Thank you");
    }
}
```

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```
    }  
}
```

Enter n :

5

Enter name :

sam

hi sam

Enter name :

ram

hi ram

Enter name :

sana

hi sana

Enter name :

sita

hi sita

Enter name :

priya

hi priya

Thank you

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Example:

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {

        int i=1;

        while (true) {

            System.out.println(i);
            i++;

            if (i > 25)
                break; //breaks the loop and comes out of while
loop
        }

        System.out.println("Thank you");

    }

}

1
2
3
4
5
6
7
8
9
10
11
```

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12

13

14

15

16

17

18

19

20

21

22

23

24

25

Thank you

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continue

stops execution of current cycle and continues with next cycle.

continue;

example for continue

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {

        int i = 1;

        System.out.println("--- for loop with continue ");
        for (i = 0; i < 5; i++)
        {
            System.out.println("hi");

            if (i ==3)
                continue; // breaks the loop and comes out
of while loop

            System.out.println(i);
            System.out.println("*");
            System.out.println("***");
            System.out.println("****");

        }
```


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```
System.out.println("Thank you");
```

```
}
```

```
}
```

```
--- for loop with continue
```

```
hi
```

```
0
```

```
*
```

```
**
```

```
***
```

```
hi
```

```
1
```

```
*
```

```
**
```

```
***
```

```
hi
```

```
2
```

```
*
```

```
**
```

```
***
```

```
hi
```

```
hi
```

```
4
```

```
*
```

```
**
```

```
***
```

```
Thank you
```

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Example for break and continue

```
package ABC;
```

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

```
public class A1 {
```

```
    public static void main(String[] args) {
```

```
        int i = 1;
```

```
        System.out.println("--- for loop with break ");
```

```
        for (i = 0; i < 5; i++)
```

```
        {
```

```
            System.out.println("hi");
```

```
            if (i == 3)
```

```
                break; // breaks the loop and comes out of
```

while loop

```
            System.out.println(i);
```

```
            System.out.println("*");
```

```
            System.out.println("**");
```

```
            System.out.println("***");
```

```
        }
```

```
        i = 1;
```

```
        System.out.println("--- for loop with continue ");
```

```
        for (i = 0; i < 5; i++)
```

```
        {
```

```
            System.out.println("hi");
```

```
            if (i == 3)
```

```
                continue; // breaks the loop and comes out
```

of while loop

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```
        System.out.println(i);
        System.out.println("*");
        System.out.println("***");
        System.out.println("****");

    }
    System.out.println("Thank you");

}

}
```

```
--- for loop with break
hi
0
*
**
***
hi
1
*
**
***
hi
2
*
**
***
hi
--- for loop with continue
hi
0
*
**
***
hi
```

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```
1
*
**
***
hi
2
*
**
***
hi
4
*
**
***
Thank you
```

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Example

- if else
- ternary operator

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {

        int i=25;

        if(i>10)
        {
            System.out.println("Thank you");
        }
        else
        {
            System.out.println("gudbye");
        }

        System.out.println( i>10 ? "Thank you" :
        "gudbye");
    }

}
```

Thank you
Thank you