

**Predicate** is a functional interface present in `java.util.function.Predicate` package  
**Predicate** accepts an argument and returns boolean  
**test()** functional method returns true if the argument matches the predicate, or else false

```
import java.util.function.Predicate;

public class Eg1 {

    public static void main(String[] args) {

        Predicate<Integer> p = x -> (x > 50);
        System.out.println(p.test(60)); // true

    }
}
```

```
import java.util.function.Predicate;

public class Eg2 {

    public static void main(String[] args) {

        Predicate<Integer> p1 = a -> a > 100;
        Predicate<Integer> p2 = a -> a < 300;

        Predicate<Integer> predicate = p1.and(p2);
        boolean test = predicate.test(200);
        System.out.println(test); // true
        System.out.println("200 > 100 and 200 < 300 so it is true");
        // 200 > 100 and 200 < 300 so it is true

    }
}
```

```
import java.util.function.Predicate;
```

```
public class Eg3 {
```

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

```
Predicate<Integer> p = a -> a > 100;
```

```
Predicate<Integer> predicate = p.negate();
```

```
boolean b1 = predicate.test(90);
```

```
System.out.println(b1); // true
```

```
boolean b2 = predicate.test(101);
```

```
System.out.println(b2); // false
```

```
}
```

```
}
```

```
import java.util.function.Predicate;
```

```
//Returns a predicate that tests if two arguments are equal according to Objects.equals(Object, Object).
```

```
public class Eg4 {
```

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

```
        String s1 = "Hello";
```

```
        String s2 = "Hi";
```

```
        Predicate<String> p = Predicate.isEqual(s2);
```

```
        System.out.println(p.test(s1)); // false
```

```
        System.out.println(p.test(s2)); // true
```

```
    }
```

```
}
```

```
import java.util.function.Predicate;

public class Eg5 {

    public static void main(String[] args) {

        Predicate<String> predicate = (s) -> s.length() > 5;
        System.out.println(predicate.test("Hello Java")); // true

    }
}
```