

static variables in java:

1. They are created outside all the methods but inside a class using static word
2. static variables can be used any where in the program (They have got global access)
3. Never create static variables inside a method(). Inside methods we create only local variables
4. In maths we create readability of program by using comma example 32,600,12, but in java instead of

comma we use underscore

5. If we donot initialize static variables then automatically default value we get stored in it
6. static variables can be accessed in following ways:
 1. ClassName.VariableName
 2. Directly with the variable name
 - 3.

Note: Never create an object to access static variables and local variables

Example 1:

```
public class A {
```

```
    static int i = 10;
```

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

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

```
A a1 = new A();
```

```
a1.test();
```

```
}
```

```
public void test(){
```

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

```
}
```

```
}
```

Output:

```
10
```

```
10
```

Example 2:

```
public class A {
```

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

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

```
A a1 = new A();
```

```
a1.test();
```

```
}
```

```
static int i = 10;
```

```
public void test(){
```

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

```
}
```

```
}
```

Output:

10

10

Example 3

```
public class A {
```

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

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

```
A a1 = new A();
```

```
a1.test();
```

```
}
```

```
public void test(){
```

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

```
}
```

```
static int i = 10;
```

```
}
```

Output:

10

10

Example 4:

```
public class A {
```

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

```
static int i = 10;
```

```
//Error
```

```
}
```

```
}
```

Output: Error

Example 5:

```
public class A {
```

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

```
short i = 3_270;
```

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

```
}
```

```
}
```

Output:

3270

Example 6:

```
public class A {  
  
    public static void main(String args[]) {  
  
        long mobilenumbers = 9632882052L;  
  
        System.out.println(mobilenumbers);  
  
    }  
  
}
```

Output:

9632882052

Example 7:

```
public class A {  
  
    static int j;  
  
    public static void main(String args[]) {
```

```
System.out.println(A.j);
```

```
System.out.println(j); //not advised to be used
```

```
A a1 = new A();
```

```
System.out.println(a1.j); //A.j
```

```
//This should not be done, Java Compiler will auto correct and run
```

```
}
```

```
}
```

Output:

0

0

0

| Datatype | | default value | size | Type of Value | Range | | | | | |
|----------|-----|---------------|---------------|-------------------|-------|--|--|--|--|--|
| byte | 0 | 1 | -128 to 127 | | | | | | | |
| short | 0 | 2 | Integer value | -32,768 to 32,767 | | | | | | |
| int | 0 | 4 | | | | | | | | |
| long | 0 | 8 | | | | | | | | |
| float | 0.0 | Decimal Value | | | | | | | | |
| double | 0.0 | | | | | | | | | |

| | | |
|---------|-------------|------------------------------|
| char | empty space | Char value |
| boolean | FALSE | boolean |
| var | | can store any type of value |
| String | null | Will values in double Quotes |