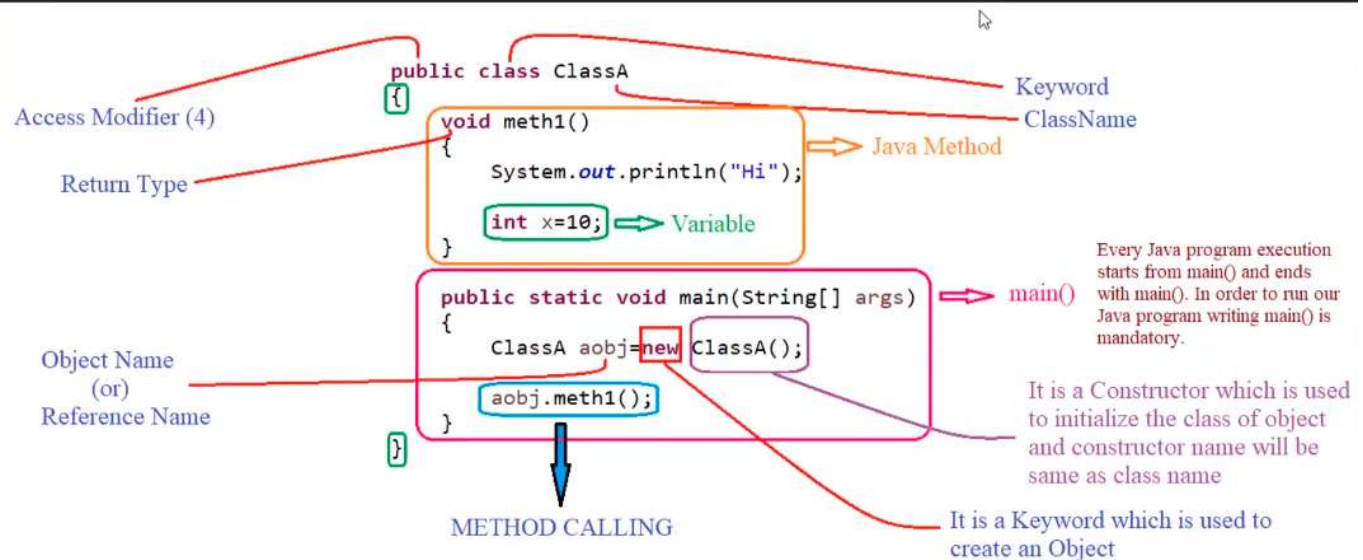


Int i=10; this is a variable

Int is a data type

With the help of op data type, we can process the information easily



```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("Hi");
8         int i=10;
9         System.out.println("i");
10    }
11    public static void main(String[] args)
12    {
13        System.out.println("Java is awesome!!!");
14    }
15 }
```

Console Output: Java is awesome!!!

```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("Hi");
8         int i=10;
9         System.out.println("i");
10    }
11    public static void main(String[] args)
12    {
13        ClassA aobj=new ClassA();
14        aobj.meth1();
15    }
16 }
17
18
19
20
21
```

Console: <terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe

Hi
i

```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("Hi");
8         int i=10;
9         System.out.println("i");
10        System.out.println(i);
11    }
12    public static void main(String[] args)
13    {
14        ClassA aobj=new ClassA();
15        aobj.meth1();
16    }
17 }
18
19
20
21
```

Console: <terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe

Hi
i
10

```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("Hi");
8         int i=10;
9         System.out.println("i");
10        System.out.println(i);
11        System.out.println("i : "+i);
12    }
13    public static void main(String[] args)
14    {
15        ClassA aobj=new ClassA();
16        aobj.meth1();
17    }
18 }
19
20
21
```

Console

```
<terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw
Hi
i
10
i : 10
```

```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("Hi");
8         int i=10;
9         System.out.println("i");
10        System.out.println(i);
11        System.out.println("i : "+i);
12        System.out.println("Addition : "+(i+90));
13    }
14    public static void main(String[] args)
15    {
16        ClassA aobj=new ClassA();
17        aobj.meth1();
18    }
19 }
20
21
```

Console

```
<terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw
Hi
i
10
i : 10
Addition : 100
```

Character data type will accept only one letter that to it should be presented in single codes ‘ ‘

```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         int a=10;
8         System.out.println("a"); // a
9         System.out.println(a); // 10
10        System.out.println('a'); // a
11        System.out.println("a+a");// a+a
12        System.out.println(a+a); //20
13        System.out.println("a value : "+a);// a value : 10
14    }
15    public static void main(String[] args)
16    {
17        ClassA aobj=new ClassA();
18        aobj.meth1();
19    }
20 }
21
```

Console

```
<terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe
a
10
a
a+a
20
a value : 10
```

```
1 public class ClassA
2 {
3     void meth1()
4     {
5         ClassA aobj=new ClassA();
6         System.out.println("hi");
7         int x=100;
8         aobj.meth2();
9         System.out.println(x/2);
10    }
11    void meth2()
12    {
13        System.out.println("hello");
14    }
15    public static void main(String[] args)
16    {
17        ClassA aobj=new ClassA();
18        aobj.meth1();
19    }
20 }
21
22
23
24
25
26
```

Console

```
<terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe
hi
hello
50
```

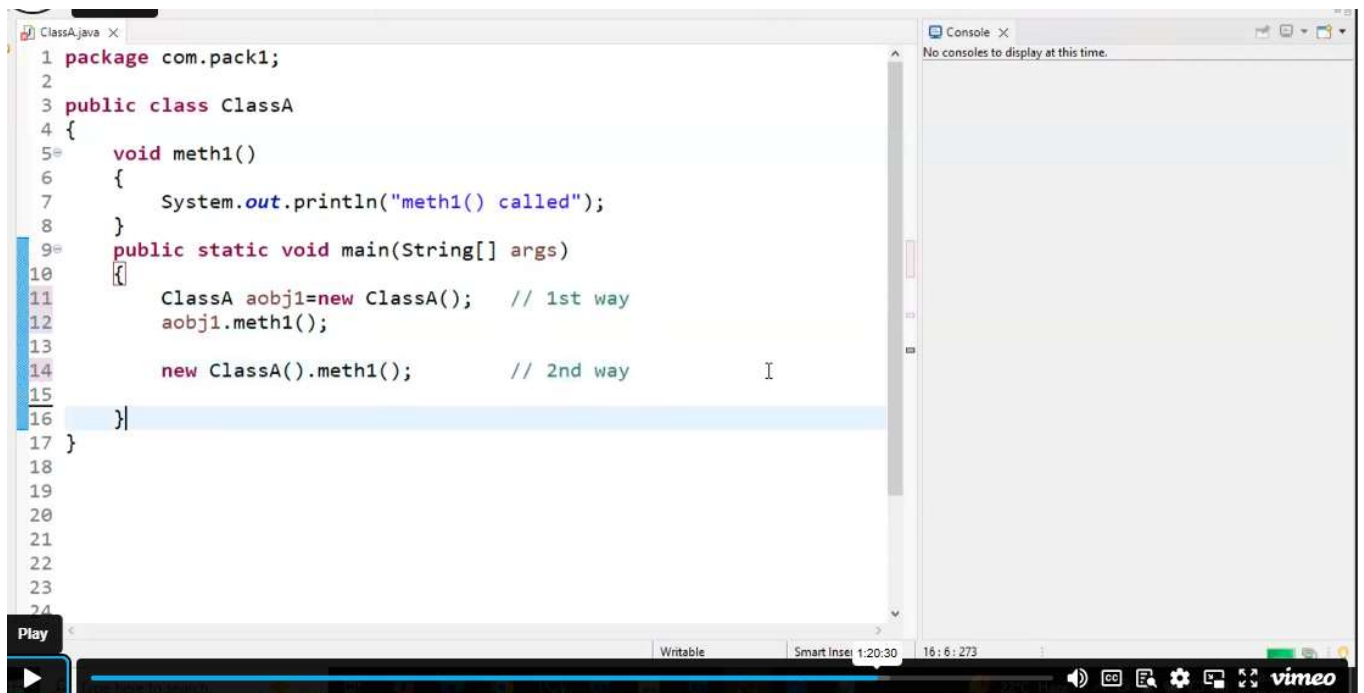
```
ClassA.java x
3 public class ClassA
4 {
5     void meth1()
6     {
7         ClassA obj1=new ClassA();
8         obj1.meth5();
9         int a=10;
10        System.out.println(10);
11        System.out.println(54+a);
12    }
13    void meth2()
14    {
15        int a=20;
16        System.out.println(78-a);
17    }
18    void meth3()
19    {
20        int a=30;
21        ClassA obj1=new ClassA();
22        System.out.println(89+1);
23        obj1.meth1();
24        System.out.println(10);
25    }
26    void meth4()
27    {
28        int a=10;
29        System.out.println(89);
30        System.out.println(85);
31        System.out.println(44);
32    }
33    void meth5()
34    {
35        System.out.println(77);
36        ClassA obj1=new ClassA();
37        obj1.meth2();
38        System.out.println(99);
39    }
40    public static void main(String[] args)
41    {
42        System.out.println("Start");
43        ClassA aobj=new ClassA();
44        aobj.meth3();
45        System.out.println("End");
46    }
47 }
```

Console x
<terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe
Start
90
77
58
99
10
64
10
End

```
ClassA.java x
24        System.out.println(10);
25    }
26    void meth4()
27    {
28        int a=10;
29        System.out.println(89);
30        System.out.println(85);
31        System.out.println(44);
32    }
33    void meth5()
34    {
35        System.out.println(77);
36        ClassA obj1=new ClassA();
37        obj1.meth2();
38        System.out.println(99);
39    }
40    public static void main(String[] args)
41    {
42        System.out.println("Start");
43        ClassA aobj=new ClassA();
44        aobj.meth3();
45        System.out.println("End");
46    }
47 }
```

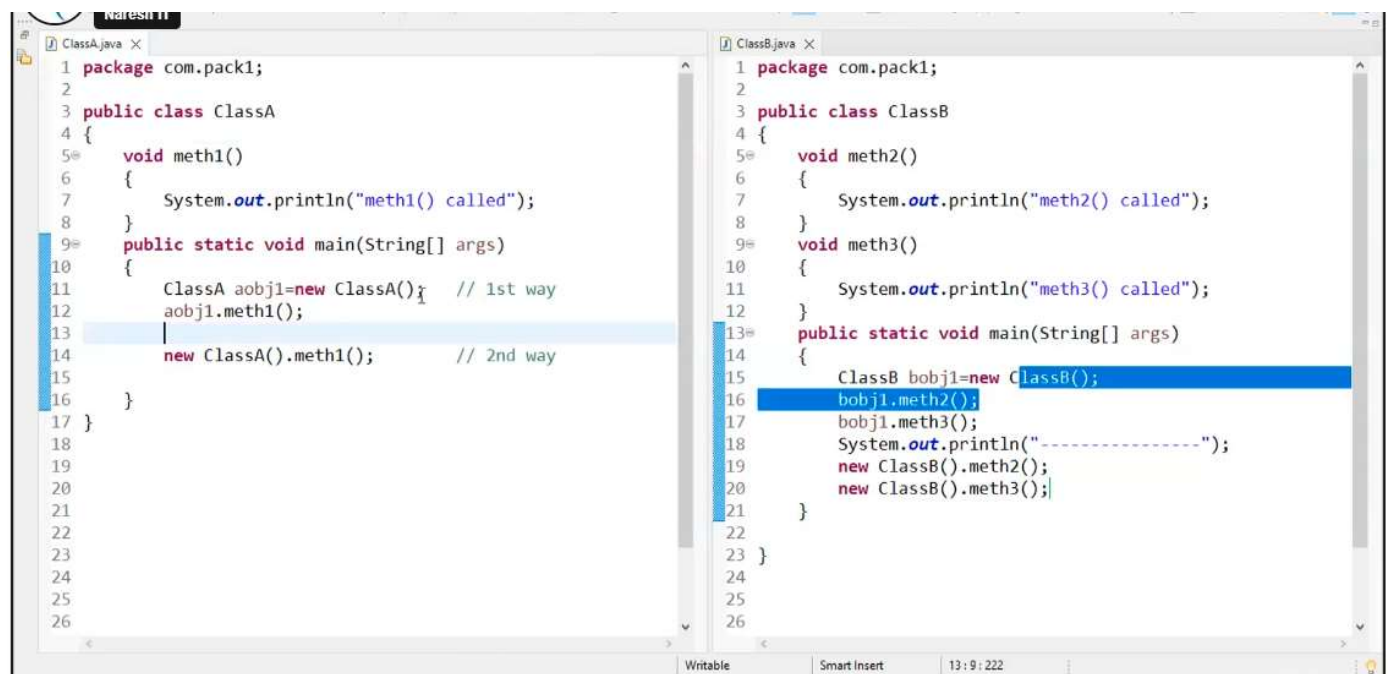
Console x
<terminated> ClassA [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe
Start
90
77
58
99
10
64
10
End

Writable Smart Insert 11:24:174



The screenshot shows an IDE with a file named `ClassA.java` open. The code defines a package `com.pack1` and a public class `ClassA`. Inside `ClassA`, there is a method `meth1()` that prints "meth1() called". The `main` method demonstrates two ways to call `meth1()`: one by creating an instance of `ClassA` and calling the method on it, and another by calling the method directly on a new instance of `ClassA`. A console window on the right is empty, displaying the message "No consoles to display at this time." The IDE interface includes a "Play" button and a status bar at the bottom.

```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("meth1() called");
8     }
9     public static void main(String[] args)
10    {
11        ClassA aobj1=new ClassA(); // 1st way
12        aobj1.meth1();
13
14        new ClassA().meth1();      // 2nd way
15
16    }
17 }
18
19
20
21
22
23
24
```



The screenshot shows two files open in an IDE: `ClassA.java` and `ClassB.java`. `ClassA.java` is identical to the one in the first screenshot. `ClassB.java` defines a package `com.pack1` and a public class `ClassB`. It contains two methods, `meth2()` and `meth3()`, both of which print their names. The `main` method in `ClassB` creates an instance of `ClassB` named `bobj1` and calls both `meth2()` and `meth3()` on it. The IDE interface includes a status bar at the bottom.

```
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("meth1() called");
8     }
9     public static void main(String[] args)
10    {
11        ClassA aobj1=new ClassA(); // 1st way
12        aobj1.meth1();
13
14        new ClassA().meth1();      // 2nd way
15
16    }
17 }
18
19
20
21
22
23
24
25
26
```

```
1 package com.pack1;
2
3 public class ClassB
4 {
5     void meth2()
6     {
7         System.out.println("meth2() called");
8     }
9     void meth3()
10    {
11        System.out.println("meth3() called");
12    }
13    public static void main(String[] args)
14    {
15        ClassB bobj1=new ClassB();
16        bobj1.meth2();
17        bobj1.meth3();
18        System.out.println("-----");
19        new ClassB().meth2();
20        new ClassB().meth3();
21    }
22 }
23
24
25
26
```



```
ClassA.java
1 package com.pack1;
2
3 public class ClassA
4 {
5     void meth1()
6     {
7         System.out.println("meth1() called");
8     }
9     public static void main(String[] args)
10    {
11        ClassA aobj1=new ClassA();
12        aobj1.meth1();
13
14        new ClassA().meth1();
15    }
16 }
17
18
19
20
21
22
23
24
25
26

Console
<terminated> ClassB [Java Application]
meth2() called
meth3() called
-----
meth2() called
meth3() called

ClassB.java
1 package com.pack1;
2
3 public class ClassB
4 {
5     void meth2()
6     {
7         System.out.println("meth2() called");
8     }
9     void meth3()
10    {
11        System.out.println("meth3() called");
12    }
13    public static void main(String[] args)
14    {
15        ClassB bobj1=new ClassB();
16        bobj1.meth2();
17        bobj1.meth3();
18        System.out.println("-----");
19        new ClassB().meth2();
20        new ClassB().meth3();
21    }
22 }
23
24
25
26
```