

Java new Keyword

The Java new keyword is used to create an instance of the class. In other words, it instantiates a class by allocating memory for a new object and returning a reference to that memory. We can also use the new keyword to create the array object.

Syntax

```
NewExample obj=new NewExample();
```

Points to remember

- It is used to create the object.
- It allocates the memory at runtime.
- All objects occupy memory in the heap area.
- It invokes the object constructor.
- It requires a single, postfix argument to call the constructor

Examples of Java new Keyword

Example 1

Let's see a simple example to create an object using new keyword and invoking the method using the corresponding object reference.

```
public class NewExample1 {  
  
    void display()  
    {  
        System.out.println("Invoking Method");  
    }  
  
    public static void main(String[] args) {  
        NewExample1 obj=new NewExample1();  
        obj.display();  
    }  
}
```

Output:

```
Invoking Method
```

Example 2

Let's see a simple example to create an object using new keyword and invoking the constructor using the corresponding object reference.

```
public class NewExample2 {  
  
    NewExample2()  
    {  
        System.out.println("Invoking Constructor");  
    }  
  
    public static void main(String[] args) {  
        NewExample2 obj=new NewExample2();  
  
    }  
  
}
```

Output:

```
Invoking Constructor
```

Example 3

Here, we create an object using new keyword and invoke the parameterized constructor.

```
public class NewExample3 {  
  
    int a,b;  
    NewExample3(int a,int b)  
    {  
        this.a=a;  
        this.b=b;  
    }  
  
}
```

```
void display()
{
    System.out.println(a+b);
}

public static void main(String[] args) {
    NewExample3 obj=new NewExample3(10,20);
    obj.display();
}
}
```

Output:

```
30
```

Example 4

Let's see an example to create an array object using the new keyword.

```
public class NewExample4 {

    static int arr[]=new int[3];

    public static void main(String[] args) {
        System.out.println("Array length: "+arr.length);
    }
}
```

Output:

```
Array length: 3
```

Example 5

Let's see an example to use new keywords in Java collections.

```
import java.util.*;

public class NewExample5 {

    public static void main(String[] args) {
        List obj=new ArrayList();
        obj.add("Java");
        obj.add("C++");
        obj.add("Python");
        System.out.println(obj);
    }
}
```

Output:

[Java, C++, Python]

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