Source Code:

a. Default Constructor

```
class Constructor {

        int a;
        boolean b;
        double c;
        char f;


        public static void main(String[] args) {

          // A default constructor is called
        Constructor obj = new Constructor();

          System.out.println("Default Value:");
          System.out.println("a = " + obj.a);
          System.out.println("b = " + obj.b);
          System.out.println("c = " + obj.c);
          System.out.println("f = " + obj.f);
        }
      }
```

```
1  package demo;
2
3  class Constructor {
4
5      int a;
6      boolean b;
7      double c;
8      char f;
9
10
11     public static void main(String[] args) {
12
13       // A default constructor is called
14     Constructor obj = new Constructor();
15
16       System.out.println("Default Value:");
17       System.out.println("a = " + obj.a);
18       System.out.println("b = " + obj.b);
19       System.out.println("c = " + obj.c);
20       System.out.println("f = " + obj.f);
21     }
22   }
```

```
<terminated> Constructor [Java Application] C:\Us
Default Value:
a = 0
b = false
c = 0.0
f =
```

b. Parameterized Constructor

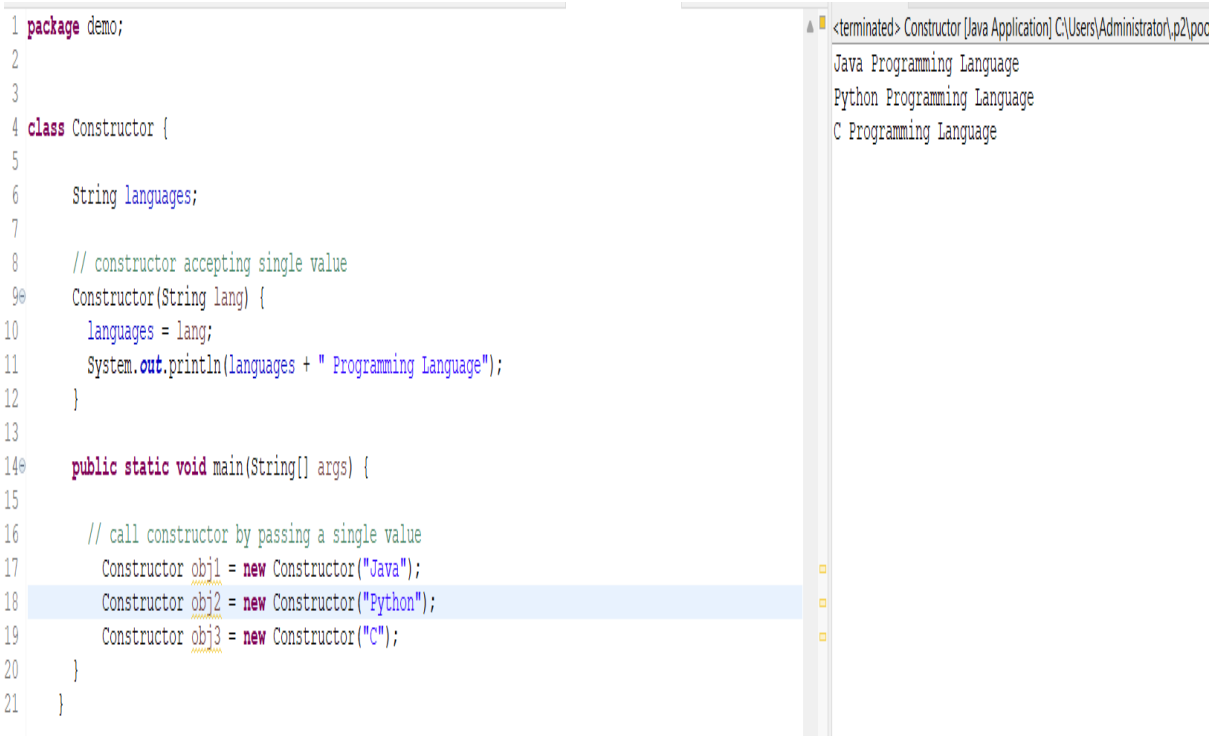
```
class Constructor {

        String languages;

        // constructor accepting single value
        Constructor(String lang) {
          languages = lang;
          System.out.println(languages + " Programming Language");
        }

        public static void main(String[] args) {

          // call constructor by passing a single value
                Constructor obj1 = new Constructor("Java");
                Constructor obj2 = new Constructor("Python");
                Constructor obj3 = new Constructor("C");
        }
      }
```



```
package demo;


class Constructor {

    String languages;

    // constructor accepting single value
    Constructor(String lang) {
      languages = lang;
      System.out.println(languages + " Programming Language");
    }

    public static void main(String[] args) {

      // call constructor by passing a single value
        Constructor obj1 = new Constructor("Java");
        Constructor obj2 = new Constructor("Python");
        Constructor obj3 = new Constructor("C");
    }
}
```

```
<terminated> Constructor [Java Application] C:\Users\Administrator\.p2\poo
Java Programming Language
Python Programming Language
C Programming Language
```

c. No-Arg private constructor

```
class Constructor {

        int i;

        // constructor with no parameter
        private Constructor() {
          i = 5;
          System.out.println("Constructor is called");
        }

        public static void main(String[] args) {

          // calling the constructor without any parameter
                Constructor obj = new Constructor();
          System.out.println("Value of i: " + obj.i);
        }
      }
```

```
package demo;


class Constructor {

    int i;

    // constructor with no parameter
    private Constructor() {
      i = 5;
      System.out.println("Constructor is called");
    }

    public static void main(String[] args) {

      // calling the constructor without any parameter
        Constructor obj = new Constructor();
      System.out.println("Value of i: " + obj.i);
    }
}
```

```
<terminated> Constructor [Java Appli
Constructor is called
Value of i: 5
```