Session-10 Constructors

Sunday, July 10, 2022   12:50 PM

Abstract- can't have body in it.

```
1. what is constructor
2. Rules to create constuctor

(a) Constructor name must be the same as its class name
(b) A Constructor must have no explicit return type
(c) A Java constructor cannot be abstract, static, final

Note: we can have private, protected, public or default constructor in Java.

3. syntax of constructor

class className()
{
   className()
   {
    //constuctor body
    //initialise values of the class attributes
   }//exit

}
4. Constructor without parameter
5. Constructor with parameter
```

New_039_cla...   New_039_cla...   New_40_Metho...   New_40_Metho...   newfile.java   New_40_Metho...   New_41_Cons... ×   New_41_Cons...   »₂₃

```java
1  package java_hub;
2
3  public class New_41_Constructor {
4
5      int x; // attributes of class
6
7      New_41_Constructor(){
8
9          x=10;
10
11     }
12
13
14     public static void main(String[] args) {
15
16         New_41_Constructor obj = new New_41_Constructor();
17
18         System.out.println(obj.x);
19     }
20
21 }
22
```

Console ×   Problems   Debug Shell   Coverage   TestNG

```
<terminated> New_41_Constructor1 [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe  (24-Aug-2022, 12:31:13 am – 12:31:13 am) [pid: 14800]
Alto 2012
```

New_039_cla...   New_039_cla...   New_40_Metho...   New_40_Metho...   newfile.java   New_40_Metho...   New_41_Cons...   New_41_Cons... ×   »₂₃

```java
1  package java_hub;
2
3  public class New_41_Constructor1 {
4
5      String car;
6      int year;
7
8
9      // construtor with parameter
10     New_41_Constructor1(String carname,int yr){
11         car=carname;
12         year=yr;
13     }
14
15     public static void main(String[] args) {
16
17         New_41_Constructor1 obj = new New_41_Constructor1("Alto", 2012);
18         System.out.println(obj.car + " " + obj.year);
19
20
21
22
23
24
25     }
26
27 }
28
```

Visibility	Default	Public	Protected	Private
Same class	Yes	Yes	Yes	Yes
Class in same package	Yes	Yes	Yes	No
Subclass in same package	Yes	Yes	Yes	No
Subclass outside the same package	No	Yes	Yes	No
Non-subclass outside the same package	No	Yes	No	No
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