

Chapter 9 Constructors in Java by Munawar

Constructor

A member function used in initialing an object while creating it.

```
Our_Student Std=new Our_Student( );
```

```
Std.Setname("Munawar");
```

In order to write our own constructor, we define a method with name same as class name.

```
Public Our_Student( ){
```

```
Name="Munawar Johar";
```

```
}
```

Constructor overloading in Java

Constructor can be overloaded just like other methods in java. We can overload the Our_Student constructor like below.

```
Public Our_Student (String n){
```

```
Name=n;
```

```
}
```

Note:

1. Constructors can take parameters without being overloaded.
2. There can be more than two overloaded constructors.

Quick Quiz:

Overload the Our_Student constructor to initialize the Fee Rs.4000.

Source Code

```
import javax.swing.plaf.synth.SynthTextAreaUI;
import java.util.Scanner;
import java.util.Random;

class Our_Students {
    private String name;
    private int fees;
    private int ID;

    public Our_Students(){ //constructor overloading
        ID=144;
        name="Kamal";
    }

    // Quick Quiz
    public Our_Students(String Name,int My_id){
        ID=My_id;
        name=Name;
    }
    public Our_Students(String n, int id,int fee){
        name=n;
        ID=id;
        fees=fee;
    }

    public int getFees(){
        return fees;
    }
    public void setID(int id) {
        ID = id;
    }

    public void Setname(String n) {
        this.name = n;
    }

    public String getName() {
        return name;
    }

    public int getID() {
        return ID;
    }
}

public class Main {
    public static void main(String[] args) {

        // Constructor in Java
        // Our_Students std=new Our_Students("munawar Hussain",148);
        Our_Students std=new Our_Students(); // constructor overloading
    }
}
```

```
without passing argument
    System.out.println(std.getID());
    System.out.println(std.getName());

    // Quiz Question
    Our_Students quiz=new Our_Students("Munawar Hussain",148,5000);
    System.out.println(quiz.getID());
    System.out.println(quiz.getName());
    System.out.println(quiz.getFees());

}
}
```

Thank You