

Why compiler automatically provides default as argument constructor to a class?

```
public class Student {
    String name;
    int rollNo;
    public Student() {
        // default constructor
    }
    public Student(String name, int rollNo) {
        // parameterized constructor
    }
}
```

Work of constructor:

 - It is used to initialize the instance variables of the class. Member like rollNo, name, and other variables are initialized with the help of parameterized constructor. If no constructor is provided, the compiler automatically provides a default constructor.
 - The compiler automatically provides the default value for the non-static fields with the help of parameterized constructor. The default value is 0 for integer, false for boolean, and null for String.
 - It is used to initialize the instance variables of the class. Member like rollNo, name, and other variables are initialized with the help of parameterized constructor. If no constructor is provided, the compiler automatically provides a default constructor.

Example:

```
public class Student {
    String name;
    int rollNo;
    public Student() {
        // default constructor
    }
    public Student(String name, int rollNo) {
        // parameterized constructor
    }
}
```

Output:

```
Student: default constructor
Student: parameterized constructor
```

Conclusion:

 - The compiler automatically provides the default value for the non-static fields with the help of parameterized constructor. The default value is 0 for integer, false for boolean, and null for String.
 - It is used to initialize the instance variables of the class. Member like rollNo, name, and other variables are initialized with the help of parameterized constructor. If no constructor is provided, the compiler automatically provides a default constructor.