

Vidyavardhini's College of Engineering & Technology Department of Computer Engineering

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Experiment No. 5	
Constructor Overloading.	
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Aim: - To use concept of constructor and constructor overloading in java.

Objective: To write a program using constructor to initialize object of a class to represent

CSL304: Object Oriented Programming Methodology Lab



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student information.

Theory: Constructor overloading is a concept of having more than one contructor with different parameters list, in such a way so that each constructor performs a different task. they are arranged in a way that each constructor performs a different task. They are differentiated by the compiler by the number of parameters in the number of parameters in the list and their types.

```
Code:-
1)
class Room {
  float length;
  float breadth;
  Room(float x, float y) {
    length = x;
    breadth = y;
  }
  Room(float x) {
     length = breadth = x;
  float Area() {
     return length * breadth;
}
class Constructordemo1 {
  public static void main(String[] args) {
    Room r1 = new Room(2.3F, 9.6F);
    Room r2 = new Room(10.0F);
     float area 1 = r1. Area();
     float area2 = r2.Area();
     System.out.println("Area 1 = " + area1);
    System.out.println("Area 2 = " + area2);
```



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```
PS G:\Programs\JAVA> &
   eview' '-XX:+ShowCodeDet
   Roaming\Code\User\worksp
   jdt ws\JAVA e16f3d66\bir
   Area 1 = 22.08
   Area 2 = 100.0
   PS G:\Programs\JAVA>
2)
class area {
  area(int r) {
    System.out.println("Area of circle is " + 3.14 * r * r);
  }
  area(double l, double b) {
     System.out.println("Area of triangle is " + 0.5 * 1 * b);
  }
  area(float l, float b) {
     System.out.println("Area of rectangle is " + 1 * b);
}
class constructors {
  public static void main(String[] args) {
    area r1 = new area(2);
    area r2 = new area(2.0, 3.0);
    area r3 = new area(2.0F, 3.0F);
  }
jdt ws\JAVA e16f3d66\bin'
Area of circle is 12.56
Area of triangle is 3.0
Area of rectangle is 6.0
PS G:\Programs\JAVA>
```



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Conclusion:

To summarize, constructor overloading in Java refers to the practice of defining multiple constructors within a class, each with a different number or type of parameters. This enables you to create objects in different ways, depending on the arguments passed during object instantiation. Constructor overloading is particularly useful for providing various options for initializing object states without creating multiple classes. It enhances code flexibility, reusability, and readability by accommodating different scenarios through the appropriate constructor selection.