



PARSHVANATH CHARITABLE TRUST'S

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science

Department of Computer Science and Engineering Data Science

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Semester: III

Class / Branch: SE Data Science

Subject: OOPJ Lab

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Experiment No. 4

Aim:- To write a Java program to demonstrate method and constructor overloading.

Program 4(a):Method Overloading

```
class Adder  
{  
    static int add(int a,int b)  
    {  
        return a+b;  
    }  
    static int add(int a,int b,int c)  
    {  
        return a+b+c;  
    }  
}
```



```
class exp4a
```

```
{  
  
public static void main(String args[])  
  
{  
  
System.out.println(Adder.add(11,10));  
  
System.out.println(Adder.add(11,10,10));  
  
}  
  
}
```

Program 4(b): Constructor Overloading

```
public class exp4b  
{  
int id;  
String name;  
  
exp4b()  
{  
System.out.println("This is the default constructor");  
}  
  
exp4b(int i,String n)  
{  
id=i;  
name=n;  
}  
  
public static void main(String args[])  
{  
exp4b s=new exp4b();  
System.out.println("\n Default Constructor values: \n");  
}
```



```
System.out.println("Student id: "+s.id+ "\n Student name: "+s.name);
System.out.println("\n Parameterized Constructor values: \n");
exp4b student=new exp4b(10,"Jadoo");
System.out.println("Student id: "+student.id+" \nStudent name: "+student.name);
}
}
```

Output:-

Program 4(a) Output:

```
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ javac exp4a.java
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ java exp4a
22
33
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ javac exp4a.java
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ java exp4a
21
31
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$
```

Program 4(b) Output:

```
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ javac exp4b.java
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ java exp4b
This is the default constructor

Default Constructor values:

Student id: 0
Student name: null

Parameterized Constructor values:

Student id: 10
Student name: Jadoo
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$
```