



Experiment-2

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SUBJECT- Java Programming

1. Aim/Overview of the practical:

Write a program to create classes and use of different types of methods.

2. Task to be done/Which logistics used:

Show the use of different types of Method, i.e., Static and Non-Static method. Also, we have to create custom classes and use its methods in Main method by instancing it through objectmethod.

3. Algorithm/Flowchart:-

- 1. Creating a custom class.
- 2. Creating a static method inside the custom class.
- 3. Creating a non-static method with same name and different arguments in order to show method overloading.
- 4. Writing the syntax of Main class and writing main method inside it.
- 5. Creating a static method inside the Main class with some arguments.
- 6. Creating a non-static method with same name and different arguments in order to show method overloading.
- 7. Creating objects of both Custom class and Main class inside the main method.







- 8. Calling static method of main class by their name and calling non-static method through object in main method.
- **9.** Calling static method of custom class by class name and calling non-static method through object in main method.

4.Steps for experiment/practical/Code:-

```
class ShowUse{
public static void ShowUse(){
System.out.println("->This is the static method of the custom
class.");
public void showUse(int a)
System.out.println("->This is the overloaded method of custom
class and the parameter is "+a);
public class Main
public static int addNum(int a,int b){return a+b;
public int addNum(int a,int b,int c){ return a+b+c;
```







```
public static void main(String[] args){
Main obj=new Main();
//object of Main class
System.out.println("Sum of the two numbers are:"+addNum(2,3));
//Static method of Main class
System.out.println("Sum of the three numbers
are:"+obj.addNum(2,3,4));
ShowUse obj1=new ShowUse();
obj1.showUse(2);
}
```

5. Observations/Discussions/ComplexityAnalysis:-

Static methods can be called by class.method() and we can call non-static method only by object.method().Method overloading can be done by giving different parameters to method sharing same name.







6. Result/Output/WritingSummary:-

```
Write your code in this editor and press "Run" button to execute it.
class ShowUse{
 public static void showUse(){
 System.out.println("-> This is the static method of the custom class.");
 public void showUse(int a){
  system.out.println("-> This is the overloaded method of custom class and
the parameter is "+a);
public class Main
public static int addNum(int a, int b){
 return a+b;
 public int addNum(int a, int b, int c){
 return a+b+c;
 public static void main(String[] args) {
Main obj=new Main(); //object of Main class
  ystem.out.println("Sum of the two numbers are: "+addNum(2,3));
     em.out.println("Sum of the three numbers are:
"+obj.addNum(2,3,4));
 ShowUse obj1=new ShowUse();
ShowUse.showUse();
 obj1.showUse(2);
```







```
Sum of the two numbers are: 5
Sum of the three numbers are: 9
-> This is the static method of the custom class.
-> This is the overloaded method of custom class and the parameter is 2
...Program finished with exit code 0
Press ENTER to exit console.
```

Learningoutcomes(WhatIhavelearnt):-

- 1. Creation of static method
- 2. Creation of custom class
- 3. Creation of object of classes.
- 4. Methodoverloading.
- **5.** Calling static methods using class.method and non-static method using object.method.

