```
//Type of User Define Methods in java
class Methods
{
  //Type 1: No Return without arguments
  public void add()
    int a = 123;
    int b = 10;
    System.out.println("Addition : "+(a+b));
  }
  public void sub(int x, int y){
    System.out.println("Subtraction : "+(x - y));
  }
  public int mul(){
    int a = 123;
    int b = 10;
    return a * b;
  }
  public float div(int x, int y){
    return (float)x / y;
```

}

class function {

}

```
public static void main(String[] args) {
    Methods o = new Methods();
         o.add();
         o.sub(123, 10);
         System.out.println("Mul : " + o.mul());
    System.out.println("Division: " + o.div(123, 10));
  }
}
Output:
Addition: 133
Subtraction: 113
Mul: 1230
Division: 12.3
//Method Overloading
class Calculator {
  // Method 1: Two integers
  public int add(int a, int b) {
    return a + b;
  }
  public int add(int a, int b, int c) {
    return a + b + c;
  }
```

```
public double add(double a, double b) {
    return a + b;
  }
     public String add(String a, String b) {
    return a + b;
  }
}
public class OverloadingExample {
  public static void main(String[] args) {
    Calculator calc = new Calculator();
    System.out.println("Two ints: " + calc.add(5, 3));
    System.out.println("Three ints: " + calc.add(5, 3, 2));
    System.out.println("Two doubles: " + calc.add(5.5, 3.3));
    System.out.println("Two strings: " + calc.add("Hello", "World"));
  }
}
output:
Two ints: 8
Three ints: 10
Two doubles: 8.8
Two strings: HelloWorld
```

## //Builtin Methods

Contains: true

```
public class StringMethods {
  public static void main(String[] args) {
    String str = "Hello World";
    System.out.println("Length: " + str.length());
    System.out.println("Uppercase: " + str.toUpperCase());
    System.out.println("Lowercase: " + str.toLowerCase());
    System.out.println("Substring: " + str.substring(0, 5));
    System.out.println("Replace: " + str.replace("World", "Java"));
    System.out.println("Contains: " + str.contains("Hello"));
  }
}
output:
Length: 11
Uppercase: HELLO WORLD
Lowercase: hello world
Substring: Hello
Replace: Hello Java
```