

Aim :- Create debug and run Java programme based on method overloading

Theory :-

Method Overloading in Java

Method overloading is a concept that allows to declare multiple method with same name but different program in classes. Java supports method overloading and always occurs in same class. It is a way through which Java supports polymorphism. Method overloading can be done by

- ① changing number of arguments
- ② changing the data types of arguments

• If two or more methods have same program list but different in between type can then be overloaded.

main method.

In Java, we can overload the main() method using different number and types of parameters but the sum any understanding original maintain.

Program :-

① Program :-

```
class practical7 {
    public static void main (String [] args) {
        System.out.println (" Main with String ");
    }

    public static void main () {
        System.out.println (" Main without args ");
    }

    public static void main (String [] args) {
        practical7 t = practical7;
        t.main ("BLACKSTOR");
        t.main ();
    }
}
```

② Program :-

```
class practical7-2 {
    int a, b;
    void meth1() {
        a=3 ; b=4 ;
        System.out.println (" a = " + a + " b = " + b);
    }

    void meth1 (int i ; int j) {
        a=i ; b=j;
        System.out.println (" a = " + a + " b = " + b);
    }
}
```



```
int meth1 (int i, int j, int k) {  
    return i+j+k;  
}
```

```
public static void main (String args []) {  
    practical7_2 pr = new practical7_2;  
    int a = pr.meth1 (6, 9, 10);  
    System.out.println ("a = " + a);  
    pr.meth1 ();  
}
```

Conclusion:- Hence, we successfully create and run program on method overloading.

C:\Windows\System32\cmd.exe

C:\Users\Public\Java\Practicals>javac practical17.java

C:\Users\Public\Java\Practicals>java practical17

main with String[]

main with String

main without args

C:\Users\Public\Java\Practicals>_

```
C:\Users\Public\Java\Practicals>javac practical17_2.java
```

```
C:\Users\Public\Java\Practicals>java practical17_2
```

```
a=27
```

```
a=3 b=4
```

```
C:\Users\Public\Java\Practicals>
```