Task 1

```java
    no usages
    void copy_method(Employe employe)
    {

        this.name=employe.name;
        this.city = employe.city;
        this.gender = employe.gender;
        this.age=employe.age;
        this.salary=employe.salary;
    }

 1 usage
Employe get_copy_obj(Employe obj){

        return obj;
}
}



}
 no usages
public class lab5task1{
    no usages
    public static void main(String[] args) {
        Employe employe1=new Employe( name: "Younis", city: "Daharki", gender: "Male", age: 20, salary: 40000);
        Employe employe2=employe1.get_copy_obj(employe1);
```
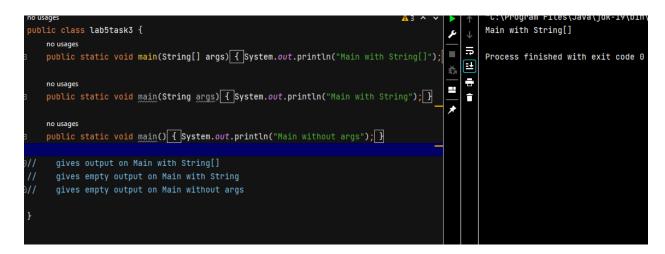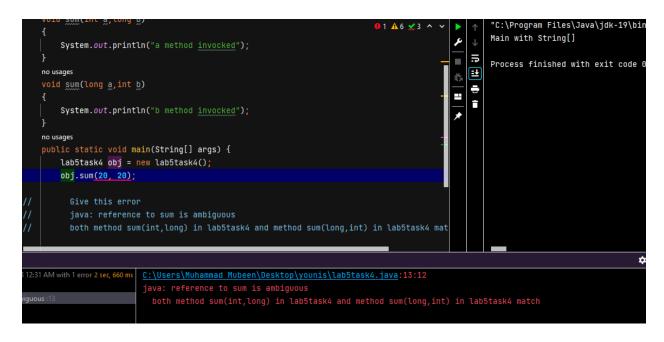
Task 2

```java
    public int getNum2() { return num2; }

    no usages
    public int getNum3() { return num3; }

    1 usage
    int sum1() { return num1+num2; }
    1 usage
    int sum2() { return num1+num2+num3; }
    1 usage
    int multiply1() { return num1*num2; }
    1 usage
    int multiply2() { return num1*num2+num3; }
}

no usages
public class lab5task2 {
    no usages
    public static void main(String[] args) {
        Calculater obj1=new Calculater(1,2);
        Calculater obj2=new Calculater(1,2,3);


        System.out.println("Sum of 2 Numbers : "+obj1.sum1());
        System.out.println("Sum of 3 Numbers : "+obj2.sum2());
        System.out.println("Multiplication of 2 Numbers : "+obj1.multiply1());
        System.out.println("Multiplication of 3 Numbers : "+obj2.multiply2());
```

```
"C:\Program Files\Java\jdk-19\bin\
Sum of 2 Numbers : 3
Sum of 3 Numbers : 6
Multiplication of 2 Numbers : 2
Multiplication of 3 Numbers : 5

Process finished with exit code 0
```

Task 3

```java
no usages
public class lab5task3 {
    no usages
    public static void main(String[] args) { System.out.println("Main with String[]");

    no usages
    public static void main(String args) { System.out.println("Main with String"); }

    no usages
    public static void main() { System.out.println("Main without args"); }

//    gives output on Main with String[]
//    gives empty output on Main with String
//    gives empty output on Main without args

}
```

```
"C:\Program Files\Java\jdk-19\bin\
Main with String[]

Process finished with exit code 0
```

Task 4

```java
void sum(int a,long b)
{
    System.out.println("a method invocked");
}
no usages
void sum(long a,int b)
{
    System.out.println("b method invocked");
}
no usages
public static void main(String[] args) {
    lab5task4 obj = new lab5task4();
    obj.sum(20, 20);

//    Give this error
//    java: reference to sum is ambiguous
//    both method sum(int,long) in lab5task4 and method sum(long,int) in lab5task4 mat
```

```
"C:\Program Files\Java\jdk-19\bin
Main with String[]

Process finished with exit code 0
```

12:31 AM with 1 error 2 sec, 660 ms   C:\Users\Muhammad Mubeen\Desktop\younis\lab5task4.java:13:12
                                        java: reference to sum is ambiguous
biguous :13   both method sum(int,long) in lab5task4 and method sum(long,int) in lab5task4 match

Task 5

```java
1 usage
int sq(int num1) {
    return num1*num1;
}
1 usage
float sq(float num2) {
    return num2*num2;
}
1 usage
double sq(double num3) {
    return num3*num3;
}
}

no usages
public class lab5task5
{
    no usages
    public static void main(String[] args)
    {
        Sqaure obj = new Sqaure();

        System.out.println("Sqaure of Integer = " + obj.sq(num1: 10));
        System.out.println("Sqaure of Float   = " + obj.sq(num2: 10f));
        System.out.println("Sqaure of Double  = " + obj.sq(num3: 10d));
    }
}
```

```
"C:\Program Files\Java\jdk-19\
Sqaure of Integer = 100
Sqaure of Float   = 100.0
Sqaure of Double  = 100.0

Process finished with exit cod
```

Task 6

```java
void m1(int num1, char ch1) {
    System.out.println("Sequence int then Char");
    System.out.println("Number 1 = "+num1);
    System.out.println("Character 1 = "+ch1);
}
1 usage
void m2(char ch2, int num2) {
    System.out.println("Sequence Char then Int");
    System.out.println("Character 2 = "+ch2);
    System.out.println("Number 2 = "+num2);
}
}

no usages
public class lab5task6
{
    no usages
    public static void main(String[] args)
    {
        int_char obj1 = new int_char();
        int_char obj2 = new int_char();

        obj1.m1(num1: 10, ch1: 'M');
        System.out.println();
        obj2.m2(ch2: 'Y', num2: 20);
    }
}
```

```
"C:\Program Files\Java\jd
Sequence int then Char
Number 1 = 10
Character 1 = M

Sequence Char then Int
Character 2 = Y
Number 2 = 20

Process finished with ex
```