

Java Lab File

Lab 4:-

Program 11: Write a java program to implement compile time polymorphism using method overloading.

Code:-

```
class PolymorphismExample {
    // Method to add two integers
    static int add(int a, int b) {
        return a + b;
    }
    // Method to add three integers
    static int add(int a, int b, int c) {
        return a + b + c;
    }
    // Method to concatenate two strings
    static String add(String a, String b) {
        return a + b;
    }
}
public class Kartik{
    public static void main(String args[]){
        PolymorphismExample p1=new PolymorphismExample();
        int sum1 = p1.add(5, 10); // Invokes the first add method
        int sum2 = p1.add(5, 10, 15); // Invokes the second add
method
        String result = p1.add("Hello, ", "world!"); // Invokes the
third add method
        System.out.println("Sum of two integers: " + sum1);
        System.out.println("Sum of three integers: " + sum2);
        System.out.println("Concatenated string: " + result);
    }
}
```

Output

```
[Running] cd "c:\Users\Kartik Verma\
Sum of two integers: 15
Sum of three integers: 30
Concatenated string: Hello, world!
```