

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!
```