

PROGRAM LINK:

http://tpcg.io/_EJRHJ4

PROGRAM

```
// Java program to Demonstrate Polymorphism

// This class will contain
// 3 methods with same name,
// yet the program will
// compile & run successfully
public class Sum {
// Overloaded sum().
    // This sum takes two int parameters
    public int sum(int x, int y)
    {
        return (x + y);
    }

// Overloaded sum().
    // This sum takes three int parameters
    public int sum(int x, int y, int z)
    {
        return (x + y + z);
    }

    // Overloaded sum().
    // This sum takes two double parameters
    public double sum(double x, double y)
    {
        return (x + y);
    }

// Driver code
    public static void main(String args[])
    {
        Sum s = new Sum();
        System.out.println(s.sum(10, 20));
        System.out.println(s.sum(10, 20, 30));
        System.out.println(s.sum(10.5, 20.5));
    }
}
```

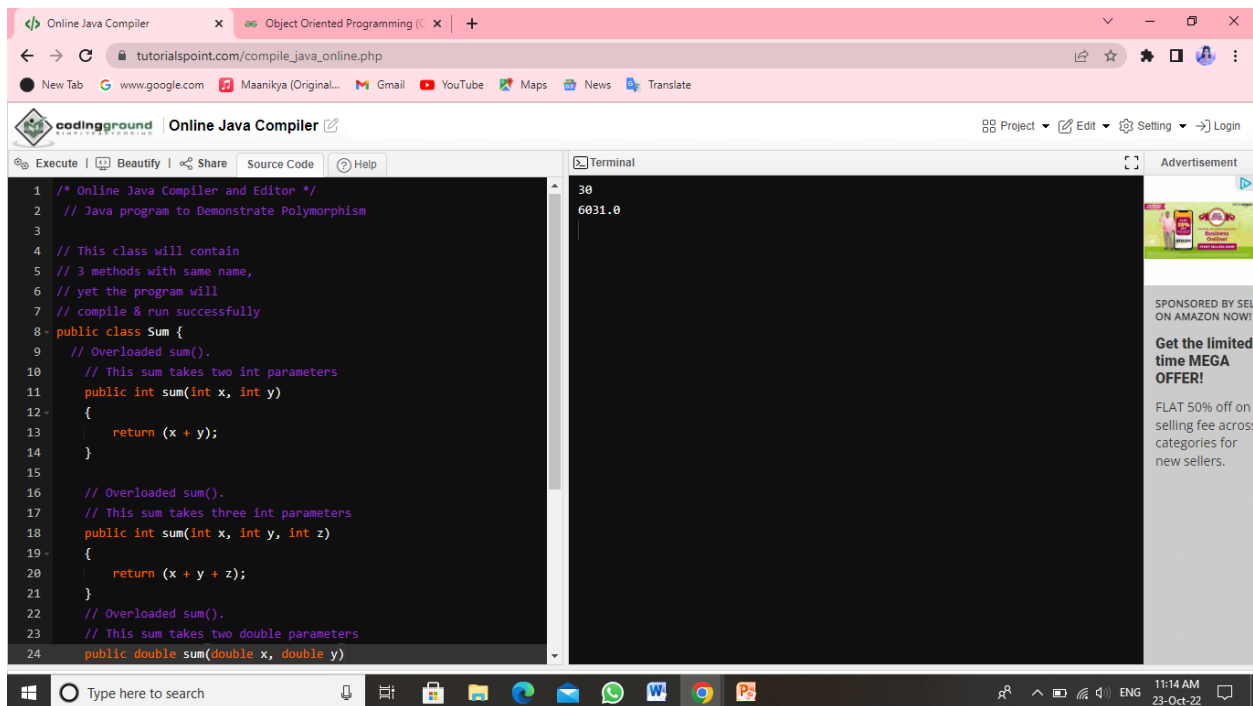
```
}
```

OUTPUT:

30

6031.0

SCREENSHOT:



The screenshot shows a web browser window with the URL `tutorialspoint.com/compile_java_online.php`. The page is titled "Online Java Compiler" and features a code editor on the left and a terminal on the right. The code in the editor is a Java program demonstrating method overloading for a class named `Sum`. It includes three methods: `sum(int x, int y)`, `sum(int x, int y, int z)`, and `sum(double x, double y)`. The terminal output shows the results of these methods: `30` and `6031.0`. The browser's address bar and various icons are visible at the top, and the Windows taskbar is at the bottom.

```
1  /* Online Java Compiler and Editor */
2  // Java program to Demonstrate Polymorphism
3
4  // This class will contain
5  // 3 methods with same name,
6  // yet the program will
7  // compile & run successfully
8  public class Sum {
9      // Overloaded sum().
10     // This sum takes two int parameters
11     public int sum(int x, int y)
12     {
13         return (x + y);
14     }
15
16     // Overloaded sum().
17     // This sum takes three int parameters
18     public int sum(int x, int y, int z)
19     {
20         return (x + y + z);
21     }
22     // Overloaded sum().
23     // This sum takes two double parameters
24     public double sum(double x, double y)
```

30
6031.0