S.No: 11	Exp. Name: ***Write a Java program to implement Method overloading***	Date:2023-09-16

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Aim:

Write a Java program with a class name `Addition` with the methods `add(int, int)`, `add(int, float)`, `add(float, float)` and `add(float, double, double)` to add values of different argument types.

Write the **main(String[])** method within the class and assume that it will always receive a total of **6** command line arguments at least, such that the first **2** are **int**, next **2** are **float** and the last **2** are of type **double**.

If the **main()** is provided with arguments : **1, 2, 1.5f, 2.5f, 1.0, 2.0** then the program should print the output as:

```
Sum of 1 and 2 : 3
Sum of 1.5 and 2.5 : 4.0
Sum of 2 and 2.5 : 4.5
Sum of 1.5, 1.0 and 2.0 : 4.5
```

Note: Please don't change the package name.

Source Code:

q11266/Addition.java

```
package q11266;
class Addition
{
   int add(int a,int b)
   {
      return a+b;
   }
   float add(int a,float b)
   {
      return a+b;
   }
   float add(float a,float b)
   {
      return a+b;
   }
   double add(float a,double b,double c)
   {
      return a+b+c;
   }
   public static void main(String args[])
   {
      int a,b;
      float x,y;
      double p,q;
      Addition ob=new Addition();
      a=Integer.parseInt(args[0]);
      b=Integer.parseInt(args[1]);
      x=Float.parseFloat(args[2]);
      y=Float.parseFloat(args[3]);
      p=Double.parseDouble(args[4]);
```

```
        q=Double.parseDouble(args[5]);
        System.out.println("Sum of "+a+" and "+b+" : "+ob.add(a,b));
        System.out.println("Sum of "+x+" and "+y+" : "+ob.add(x,y));
        System.out.println("Sum of "+b+" and "+y+" : "+ob.add(b,y));
        System.out.println("Sum of "+x+", "+p+" and "+q+" : "+ob.add(x,p,q));
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Sum of 2 and 1 : 3
Sum of 5.0 and 3.6 : 8.6
Sum of 1 and 3.6 : 4.6
Sum of 5.0, 9.2 and 5.26 : 19.46