S.No: 11	Exp. Name: ***Write a Java program to implement Method overloading***	Date:2023-09-22

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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
{
   static int add(int a,int b){ return a+b;}
   static float add(int a,float b){return a+b; }
   static float add(float a,float b){ return a+b; }
   static double add(float a,double b,double c){ return a+b+c; }
   public static void main(String a[])
   {
      int i1 =Integer.parseInt(a[0]), i2 =Integer.parseInt(a[1]);
      float f1 = Float.parseFloat(a[2]), f2 = Float.parseFloat(a[3]);
      double d1 = Double.parseDouble(a[4]), d2 = Double.parseDouble(a[5]);
      System.out.println("Sum of "+i1+" and "+i2+" : "+add(i1,i2));
      System.out.println("Sum of "+f1+" and "+f2+" : "+add(f1,f2));
      System.out.println("Sum of "+i2+" and "+f2+" : "+add(i2,f2));
      System.out.println("Sum of "+f1+", "+d1+" and "+d2+" : "+add(f1,d1,d2));
   }
}
```

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