

Varargs

- Varargs is nothing but variable length arguments
- Varargs should be taken as formal parameter in method definition
- Varargs can take 0 arguments N.no.of arguments
- Varargs internally works a Single dimensional Array and It is dynamic
- If required we can also pass an array as an argument to the varargs parameter
- **With the help of varargs we can avoid defining methods overloading whenever you want perform same operation for irrespective no.of.argument of same type**
- Varargs can be also takes along with other type of parameter but in this case varargs should be last argument.

class Maths

```
{
    int sum(int x,int y)
        { return x+y; }

    int sum(int x,int y,int z)
        { return x+y+z; }
    .
    .
    .
    .
    .
    Maths m=new Maths( );
    m.sum(10,20);
    m.sum(10,20,30);
    m.sum(10,20,30,40,50);
}
```

int sum(int...x) // works as SD

```
{
    int s=0;
    for(int i:x)
        {s=s+i;}
    return s;
}
```

Example 1:

//Maths.java

class Maths

{

int sum(int...x) //...varargs -> SDA

{ int s=0;

for(int i:x)

{s=s+i; }

return s;

}

public static void main(String args[])

{

Maths m=new Maths();

int s=m.sum(10,20);

System.out.println("Sum is : "+s);

s=m.sum(10,20,30);

System.out.println("sum is : "+s);

s=m.sum(10,20,30,40,50);

System.out.println("Sum is : "+s);

s=m.sum();

System.out.println("Sum is : "+s);

int[] a={10,20,30,40};

s=m.sum(a); //a is int[]

System.out.print("Sum is : "+s);

}

}

Example 2:

//Student.java

```
class Student
{
    void findResult(String name,int...m) //int[ ] m
    {
        System.out.println("Name is : "+name);
        System.out.println("Marks ");
        int s=0;
        for (int i:m)
        {
            System.out.println(i);
            s=s+i;
        }
        System.out.println("-----");
        System.out.println("Total is : "+s);
        System.out.println("=====");
    }

    public static void main(String args[ ])
    {
        Student s=new Student();
        s.findResult("Manasa",40,50,60);
        s.findResult("Mamatha",40,50);
        s.findResult("Cnu",30);
        s.findResult("anu");
    }
}
```