

Write a java program which will calculate the hypotenuse of a triangle?

To calculate hypotenuse, we are going to use pythagorus theorem.  $A^2+B^2=C^2$ . If you want to calculate Hypotenuse C, then use the following formula,  $C = \sqrt{A^2+B^2}$

Class participation: Write a java program which will calculate the power of a variable.  $A^B$ , suppose your integer value is 2 and power is 3, then it will give you the result  $2^3=8$

Write a Java program which will add two strings

A= "I am"

B = " Playing football"

C= " I am playing football"

C= A+B; Here c will add strings A and B by using plus sign.

Write a Java program which will add the even and multiply the odd numbers from 1 to 20.

In java, we can declare an array by using the following format

```
int arr[]=new int[12];
```

Here arr is an integer type array which can hold 12 values. Like c, array index will start from 0.

If you want to initialize a list to an array, follow the following format,

```
int arr[]= {32,31,12,14,10,16,7,8,9};
```