

Practical 13

Aim : Write a program for calculator to accept an expression as a string in which the operands and operator are separated by zero or more spaces.

For ex: 3+4 and 3 + 4 are acceptable expressions

Code :

```
import java.util.*;

class Practical13
{
    public static void main(String args[])
    {

        String i=args[0].replaceAll(" ","");
        i=i.replaceAll("[+]", "#+");
        i=i.replaceAll("[-]", "#-");
        i=i.replaceAll("[*]", "#*");
        i=i.replaceAll("[/]", "#/");

        args= i.split("#");

        if(args.length!=3)
        {
            System.out.println("Wrong input!!");
            System.exit(0);
        }

        int ans= 0;

        switch(args[1].charAt(0))
        {
```

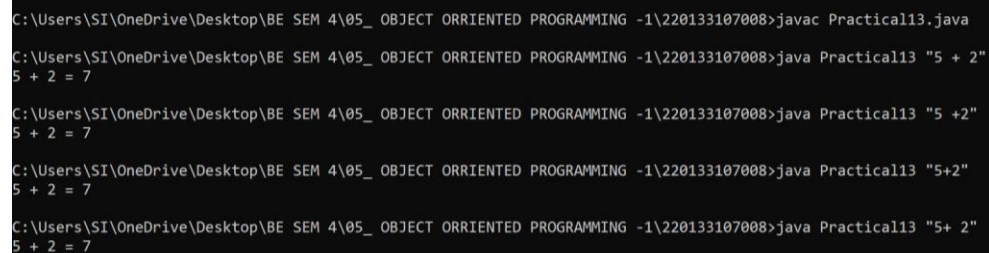
```
        case'+':ans=Integer.parseInt(args[0])+ Integer.parseInt(args[2]);
            break;

        case'-':ans=Integer.parseInt(args[0])-Integer.parseInt(args[2]);
            break;

        case'*':ans = Integer.parseInt(args[0])*Integer.parseInt(args[2]);
            break;

        case'/':ans = Integer.parseInt(args[0])/Integer.parseInt(args[2]);
            break;
    }
    System.out.println(args[0]+" "+args[1]+" "+args[2]+" = "+ans);
}
}
```

Output :



```
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>javac Practical13.java
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>java Practical13 "5 + 2"
5 + 2 = 7
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>java Practical13 "5 +2"
5 + 2 = 7
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>java Practical13 "5+2"
5 + 2 = 7
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>java Practical13 "5+ 2"
5 + 2 = 7
```