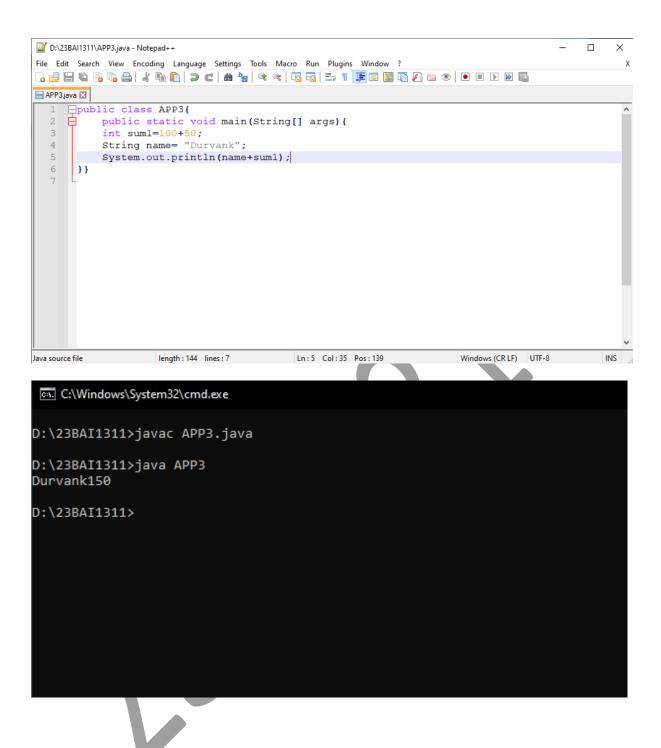
23BAI1311

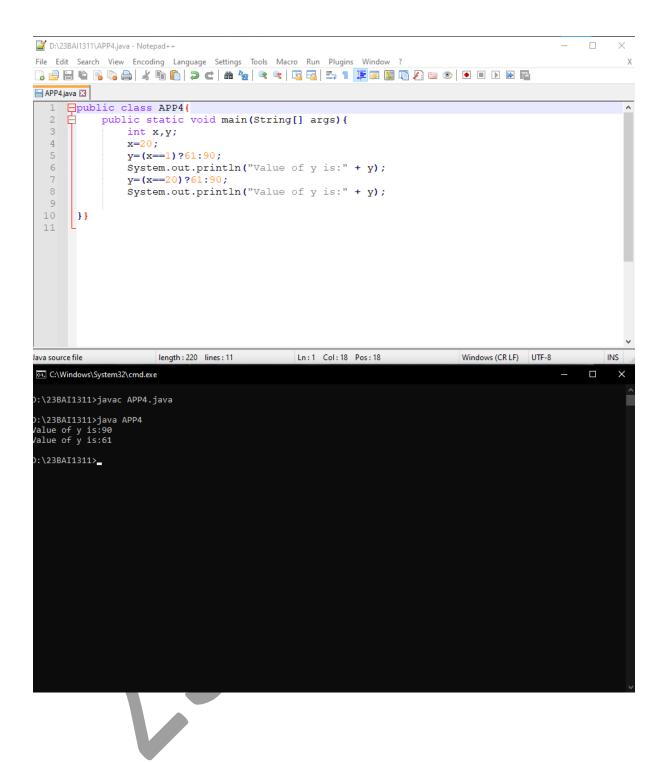
Durvank Mahesh Gade

16/07/2024

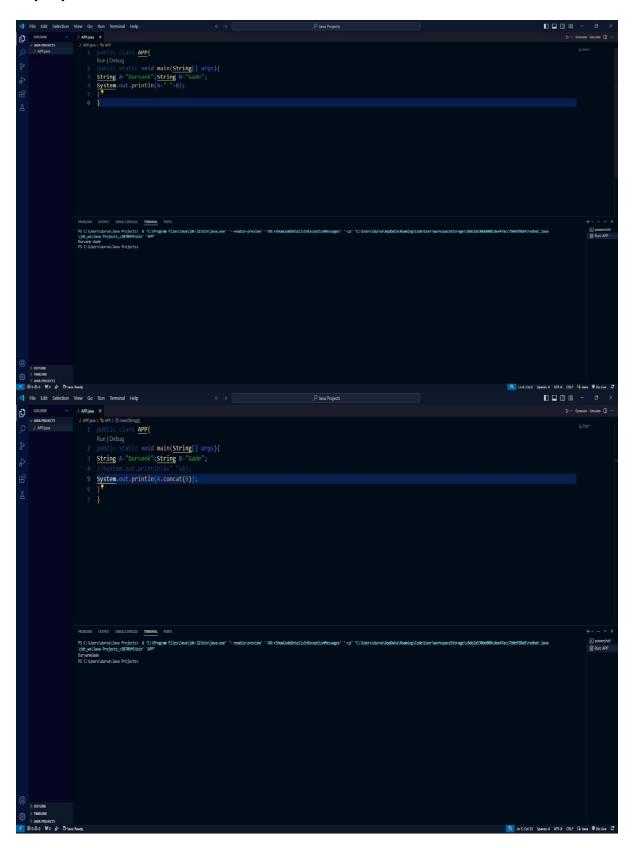
```
D:\23BAI1311\APP.java - Notepad++
                                                                                               - \quad \  \, \square \quad \, \times
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
 📙 APP2.java 🗵 📙 APP.java 🗵
     public class APP{
public static void main(String []args){
            System.out.println("Hello World!\n");
            //Addition of two numbers
            int a =20, b=30;
   6
            System.out.println(a+b+"\n");
            //String
            String name= "Durvank";
   8
   9
            System.out.println(name);
  10
             //Constant
  11
            final int c = 32;
  12
       }}
                      length: 281 lines: 13
Java source file
                                               Ln:11 Col:22 Pos:276
                                                                             Windows (CR LF) UTF-8
                                                                                                       INS
C:\Windows\System32\cmd.exe
D:\23BAI1311>javac APP.java
D:\23BAI1311>java APP
Hello World!
50
D:\23BAI1311>
```

```
D:\23BAl1311\APP2.java - Notepad++
                                                                                                 File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
🔚 APP2.java 🔣
     public class APP2 {
public static v
            public static void main(String[] args){
                int myint=9;
  4
                double mydouble=myint;
                //Widening Casting
                System.out.println(myint+"\n");
  6
                 \begin{tabular}{ll} \tt System.out.println(mydouble+"\n"); \\ \end{tabular} 
  8
                //Narrow casting
                mydouble= 9.78d;
  9
  10
                myint=(int) mydouble;
 11
                System.out.println(mydouble+"\n");
 12
                System.out.println(myint+"\n");
 13
       }}
 14
                                              Ln:9 Col:25 Pos:238
                      length: 341 lines: 14
                                                                           Windows (CR LF) UTF-8
                                                                                                     INS
Java source file
C:\Windows\System32\cmd.exe
                                                                                                  D:\23BAI1311>javac APP2.java
D:\23BAI1311>java APP2
9.0
9.78
D:\23BAI1311>
```





```
D:\23BAI1311\APP5.java - Notepad++
                                                                                          _ _
                                                                                                  \times
 File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
 🔚 APP5.java 🗵
      public class APP5{
public static
           public static void main(String[] args){
                String name="Durvank";
                System.out.println("Size of string is:"+ name.length());
                System.out.println(name.toUpperCase());
   6
                System.out.println(name.toLowerCase());
                System.out.println(name.indexOf("van"));
   8
       }}
Java source file
                     length: 284 lines: 9
                                             Ln:7 Col:49 Pos:279
                                                                         Windows (CR LF) UTF-8
D:\23BAI1311>javac APP5.java
D:\23BAI1311>java APP5
Size of string is:7
DURVANK
durvank
D:\23BAI1311>
```





```
public class APP2{
   Run|Debug

public static void main(String[] args){

   System.out.println(Math.max(a:5,b:10));

   System.out.println(Math.min(a:5,b:10));

   System.out.println(Math.sqrt(a:64));

   System.out.println(Math.abs(-4.7));

   System.out.println(Math.random());

}
```

```
PS C:\Users\durva> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\durva\AppData\Local\Temp\vscodesws_6d ab0\jdt_ws\jdt.ls-java-project\bin' 'APP2'

10

5

8.0

4.7

0.6066473127902583

PS C:\Users\durva>
```



Program 1:

```
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab> & 'C:\
va\AppData\Roaming\Code\User\workspaceStorage\b875497c
true
false
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab>
```

Program 2:

```
}*/
int x=10; int y=9;

System.out.println(x>y);
}
```

Output:

```
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab> & 'C
va\AppData\Roaming\Code\User\workspaceStorage\b87549
true
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab>
```

Program 3:

```
Run|Debug

public static void main(String[] Args){

if(20>18){

System.out.println(x:"20m is greater than 18");

}
```

```
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab> & 'C:\Prop' 'C:\Users\durva\AppData\Roaming\Code\User\workspaceSto 20m is greater than 18
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab>
```

Program 4:

```
}*/
int time =20;
if (time<18){System.out.println(x:"Good day");}
else{System.out.println(x:"Good Evening");}
}
</pre>
```

```
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab> & 'C:\Program File
p' 'C:\Users\durva\AppData\Roaming\Code\User\workspaceStorage\b87!
Good Evening
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab>
```



Program 5:

```
public class APP2307b {
    public static void main(string[] Args){

    int day=4;
    int day=[] case 1:
        System.out.println(x:"Monday");
        break;
    case 2:
        System.out.println(x:"Tuesday");
        break;
    case 3:
        System.out.println(x:"Wednesday");
        break;
    case 4:
        System.out.println(x:"Thursday");
        break;
    case 5:
        System.out.println(x:"Friday");
        break;
    case 6:
        System.out.println(x:"Sat");
        break;
    case 7:
        System.out.println(x:"Sunday");
        break;
    case 7:
        System.out.println(x:"Invalid");
        break;
        case 7:
        System.out.println(x:"Invalid");
        break;
        default:
        System.out.println(x:"Invalid");
        break;
        default:
```

```
Thursday
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab>
```

Program 7:

```
public class APP2307c {
    Run|Debug

public static void main(String[] args){
    int i = 0;
    while(i<5){
        System.out.println(i);
        i++;
}

}

}

}

}

10</pre>
```

Output:

```
va\AppData\Roaming\Code\User\workspaceStorage\b87
0
1
2
3
```

Program 8:

```
int i=0;

do{

    System.out.println(i);

    i++;

while(i<5);</pre>
```

```
va\AppData\Roaming\Code\User\workspaceStorage\b875497c60bbd44b80
0
1
2
3
4
```

Program 9:

Output:

```
va\AppData\Roaming\Code\User\workspaceStor
Audi
Maruti
BMW
McLauren
```

Program 10:

```
public class APP2307c {
        public static void main(String[] args){
             String[] cars={ Audi , Maruti , brw ,
ZO
21
22
23
            for(int i=0;i<10;i++){
24
                 if(i==4){
25
26
27
                 System.out.println(i);
28
29
30
31
```

```
0
1
2
3
```

Program 11:

Output:

```
Va\AppData\koaming\code\User\workspaceStorage\b8/549/code\
0
1
2
3
5
6
7
```

Program 12:

```
import java.util.Scanner;
public class APP2307d {
    Run | Debug
    public static void main(String[] args){
        Scanner myobj= new Scanner(System.in);
        String username;
        System.out.println(x:"Enter your username");
        username = myobj.nextLine();
        System.out.println("Username is: "+ username);
}
```

```
Enter your username

Durvank

Username is: Durvank

PS D:\Docs\Material\3rd Sem\238AI1311-lavalab\
```

Program 1:

```
public class APP2507{
    Run|Debug

public static void main(String[] args){

    char[] helloArray={'h','e','l','l','o','.'};

String helloString=new String(helloArray);

System.out.println(helloString);

}
```

Output:

```
va\AppData\Roaming\Code\User\workspaceStorage\b8
hello.
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab>
```

Program 2:

```
1 import java.util.Scanner;
2 public class Calculator{
       Run | Debug
       public static void main(String[] args){
           int operandA, operandB; int i=0;
           String operation;
           String loop;
           String add="ADD";
           String sub="SUB";
           String mul="MULTIPLY";
           String div="DIVIDE";
           String cont="YES";
           String end="NO";
           Scanner n = new Scanner(System.in);
           while(i <= 0){
           System.out.println(x:"Enter the arithmetic operation you need to perform:\n1.ADD\n2.SUB\n3
           operation = n.nextLine();
           System.out.println(x:"Enter Operand 1");
           operandA = n.nextInt();
           System.out.println(x:"Enter Operand 2");
           operandB = n.nextInt();
           n.nextLine();
           if(operation.equals(add)){
               System.out.println(operandA+operandB);
```

```
else if(operation.equals(sub)){
    System.out.println(operandA-operandB);
}
else if(operation.equals(mul)){
    System.out.println(operandA*operandB);
}
else if(operation.equals(div)){
    System.out.println(operandA/operandB);
}

System.out.println(operandA/operandB);
}

System.out.println(x:"YES to continue or NO to exit: ");
loop = n.nextLine();
if(loop.equals(cont)){
    continue;
}
else{
    break;
}
}
}
```

```
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview'
va\AppData\Roaming\Code\User\workspaceStorage\b875497c60bbd44b86998893825b3943\redhat.java\jdt_ws\23BAI1311-Java
Enter the arithmetic operation you need to perform:
1.ADD
2.SUB
3.MULTIPLY
4.DIVIDE
ADD
Enter Operand 1
12
Enter Operand 2
13
25
YES to continue or NO to exit:
Enter the arithmetic operation you need to perform:
1.ADD
2.SUB
3.MULTIPLY
4.DIVIDE
DIVIDE
Enter Operand 1
Enter Operand 2
YES to continue or NO to exit:
PS D:\Docs\Material\3rd Sem\23BAI1311-JavaLab>
```