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Programming Assignment 9:

Main Class for Calling External Methods:

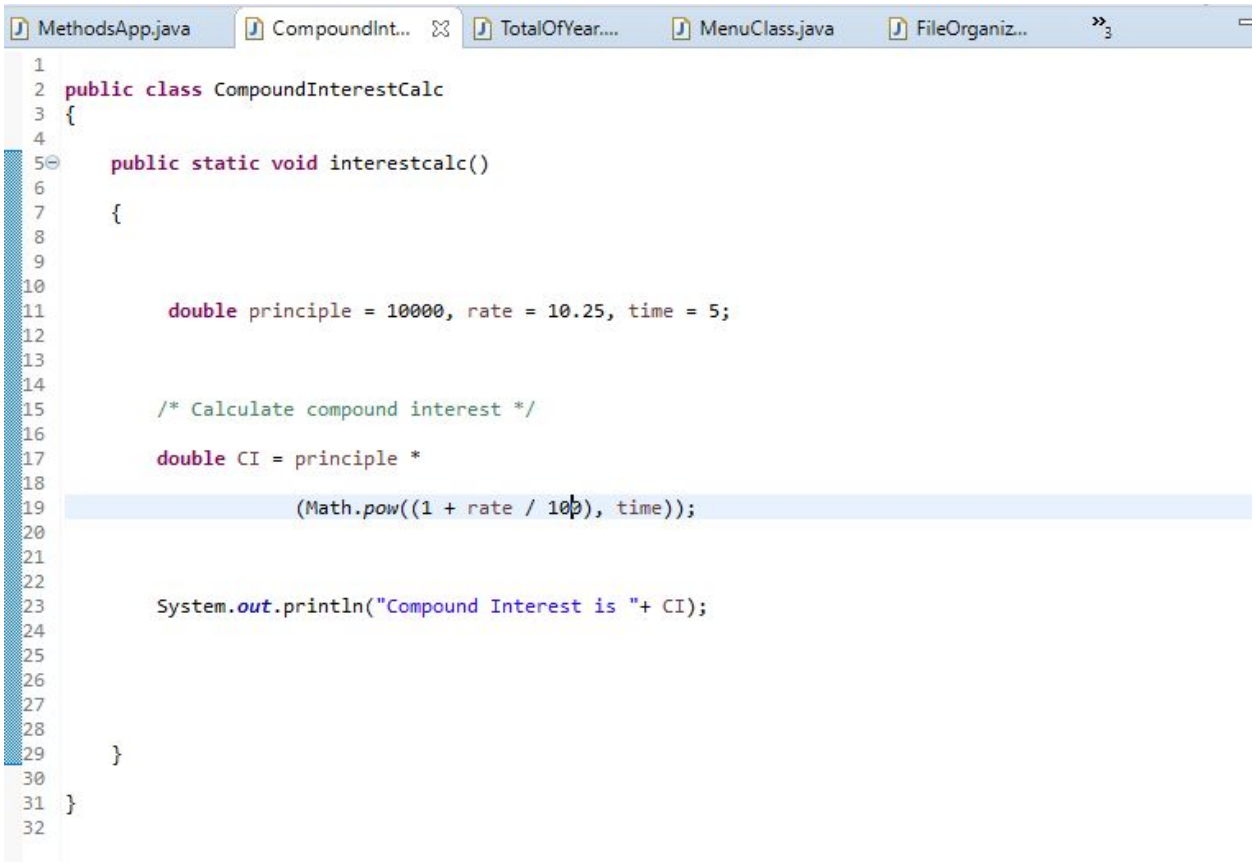
MethodsApp.java | ReturnMetho... | TotalOfYear.... | MenuClass.java | FileOrganiz...

```
1
2  public class MethodsApp
3  {
4
5      static void internalMethod()
6
7          {
8
9              System.out.println("This is how to call a method!");
10
11         }
12
13     public static void main(String args[])
14     {
15         internalMethod();
16         ExternalMethod.externalMethod();
17         CompoundInterestCalc.interestcalc();
18         ParameterMethod.parametercalc(10, 20, 30, 40);
19         ReturnMethod.returnamount(10, 20, 30, 40);
20         TotalOfYear.totalOfYear();
21         MenuClass.runmenu();
22
23     }
24
25 }
26
```

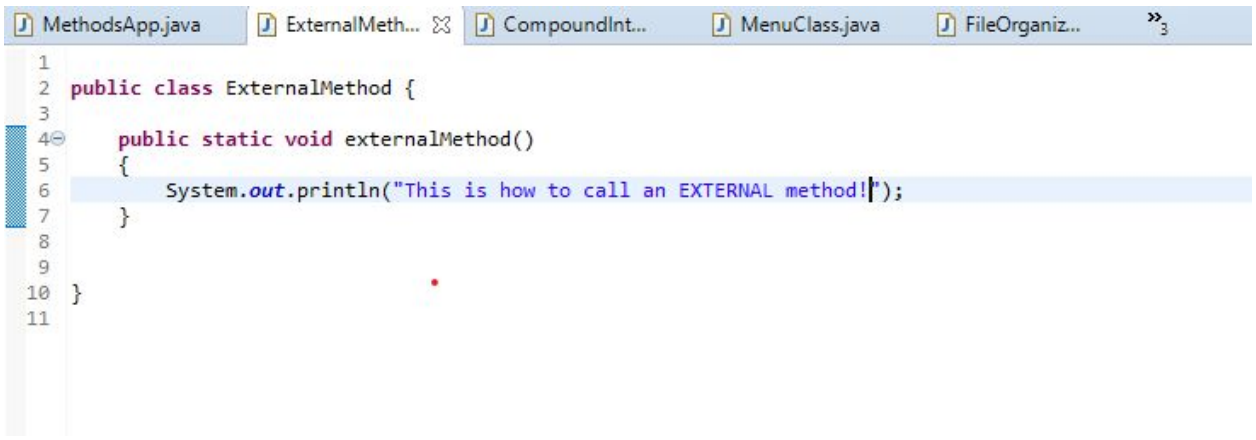
Problems | Javadoc | Declaration | Console | Call Hierarchy

```
<terminated> MethodsApp [Java Application] C:\Program Files\Java\jdk-10.0.2\bin\javaw.exe (Nov 26, 2019, 6:50:16 PM)
This is how to call a method!
This is how to call an EXTERNAL method!
Compound Interest is 16288.946267774416
The sum of the passed in parameters is 100.0
153.0
The total for the year is:55845.0
Friday
```

Calculate Interest Class:



ExternalClass Class:



Parameter Method:

MethodsApp.java | ExternalMeth... | CompoundInt... | ParameterMe... | MenuClass.java

```
1
2  public class ParameterMethod
3  {
4
5      public static void parametercalc (int a, int b, double c, double d)
6
7          {
8
9
10
11             double total = a + b + c + d;
12
13
14
15             System.out.println("The sum of the passed in parameters is "+ total);
16
17
18
19
20
21         }
22
23 }
24
```

Return Method:

MethodsApp.java | ExternalMeth... | CompoundInt... | ParameterMe... | ReturnMetho...

```
1
2  public class ReturnMethod
3  {
4
5          static double returnamount (int a, int b, double c, double d)
6
7          {
8
9
10
11             double total = a + b + c + d;
12
13
14
15             return total;
16
17
18
19         }
20
21 }
22
```

Case Driven Menu:

```
public class MenuClass
{
	public static void runmenu(){


		int day = 5;

		String dayString;


		// switch statement with int data type

		switch (day) {

		case 1:

			dayString = "Monday";

			break;

		case 2:

			dayString = "Tuesday";

			break;

		case 3:

			dayString = "Wednesday";

			break;

		case 4:

			dayString = "Thursday";
```

```
                break;
            case 5:
                dayString = "Friday";
                break;
            case 6:
                dayString = "Saturday";
                break;
            case 7:
                dayString = "Sunday";
                break;
            default:
                dayString = "Invalid day";
                break;
            }
            System.out.println(dayString);


        }
}
```

Total of year: