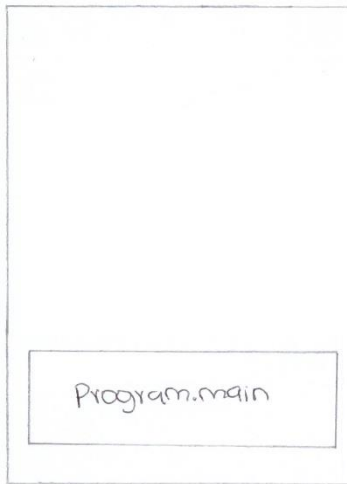
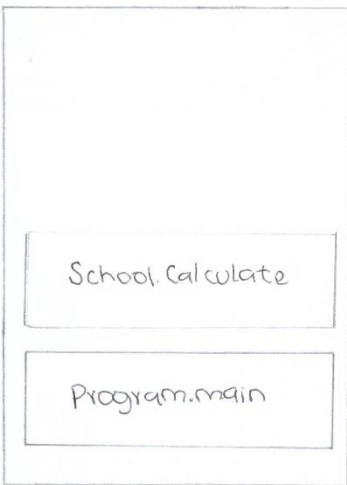


Calculate average



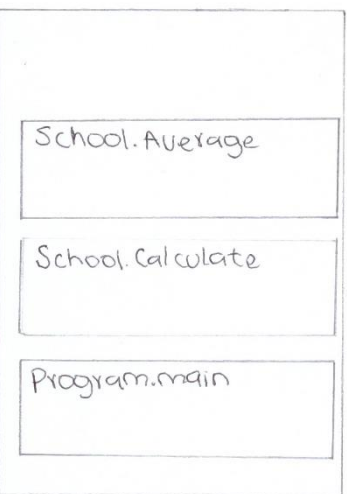
```
1 package student;
2
3 public class Program {
4
5     public static void main(String[] args) {
6
7         Student S1 = new Student("Juan", 2000);
8         Student S2 = new Student("Ana", 2500);
9         Student S3 = new Student("Pedro", 3500);
10
11         School High = new School();
12         High.addStudent(S1);
13         High.addStudent(S2);
14         High.addStudent(S3);
15
16         float getAverage = High.calculateAverage();
17         System.out.println("Average payment students: $" + getAverage);
18
19         float maxPayment = High.maxPayment();
20         System.out.println("Maximum payment of students is: " + maxPayment);
21
22         float diffAverage = High.sum - High.maxPayment;
23         System.out.println("The difference between average and maximum payment");
24     }
25 }
26
27 }
```

Name	Value
args	String[0]
S1	Student
S2	Student
S3	Student
High	School (0)



```
7 Student[] arrStudent = new Student[MAXIMUM_CAPACITY];
8
9 public void addStudent(Student student) {
10     if(quantity > MAXIMUM_CAPACITY - 1) {
11         System.out.println("Wrong, maximum capacity of students");
12     }
13     else {
14         arrStudent[quantity] = student;
15         quantity++;
16     }
17 }
18 float sum = 0;
19 public float calculateAverage() {
20
21     for(int i=0; i<quantity; i++) {
22         sum = sum + arrStudent[i].payment;
23     }
24     obtAverage();
25     return average;
26 }
27 float average = 0;
28 public float obtAverage() {
29     average = sum / quantity;
30 }
31 return average;
32 }
33 }
```

Name	Value
no method return value	
this	School (0)



```
7 Student[] arrStudent = new Student[MAXIMUM_CAPACITY];
8
9 public void addStudent(Student student) {
10     if(quantity > MAXIMUM_CAPACITY - 1) {
11         System.out.println("Wrong, maximum capacity of students");
12     }
13     else {
14         arrStudent[quantity] = student;
15         quantity++;
16     }
17 }
18 float sum = 0;
19 public float calculateAverage() {
20
21     for(int i=0; i<quantity; i++) {
22         sum = sum + arrStudent[i].payment;
23     }
24     obtAverage();
25     return average;
26 }
27 float average = 0;
28 public float obtAverage() {
29     average = sum / quantity;
30 }
31 return average;
32 }
33 }
```

Name	Value
no method return value	
this	School (0)



```

7 Student[] arrStudent = new Student[MAXIMUM_CAPACITY];
8
9 public void addStudent(Student student) {
10     if(quantity > MAXIMUM_CAPACITY - 1) {
11         System.out.println("Wrong, maximum capacity of students");
12     }
13     else {
14         arrStudent[quantity] = student;
15         quantity++;
16     }
17 }
18 float sum = 0;
19 public float calculateAverage() {
20     for(int i=0; i<quantity; i++) {
21         sum = sum + arrStudent[i].payment;
22     }
23     obtAverage();
24     return average;
25 }
26 float average = 0;
27 public float obtAverage() {
28     average = sum / quantity;
29     return average;
30 }
31 }
32 }
33 }
34 }
  
```



```

1 package student;
2
3 public class Program {
4
5     public static void main(String[] args) {
6
7         Student S1 = new Student("Juan", 2000);
8         Student S2 = new Student("Ana", 2500);
9         Student S3 = new Student("Pedro", 3500);
10
11         School High = new School();
12         High.addStudent(S1);
13         High.addStudent(S2);
14         High.addStudent(S3);
15
16         float getAverage = High.calculateAverage();
17         System.out.println("Average payment students: $" + getAverage);
18
19         float maxPayment = High.maxPayment();
20         System.out.println("Maximum payment of students is: " + maxPayment);
21
22         float diffAverage = High.sum - High.maxPayment;
23         System.out.println("The difference between average and maximum payment");
24     }
25 }
26 }
27 }
  
```

```

1 package student;
2
3 public class Program {
4
5     public static void main(String[] args) {
6
7         Student S1 = new Student("Juan", 2000);
8         Student S2 = new Student("Ana", 2500);
9         Student S3 = new Student("Pedro", 3500);
10
11         School High = new School();
12         High.addStudent(S1);
13         High.addStudent(S2);
14         High.addStudent(S3);
15
16         float getAverage = High.calculateAverage();
17         System.out.println("Average payment students: $" + getAverage);
18
19         float maxPayment = High.maxPayment();
20         System.out.println("Maximum payment of students is: " + maxPayment);
21
22         float diffAverage = High.sum - High.maxPayment;
23         System.out.println("The difference between average and maximum payment");
24     }
25 }
26 }
27 }
  
```

Calculate maximum payment



The screenshot shows an IDE with the following components:

- Project Explorer:** Shows a project named "Program (4) [Java Application]" with a file "student.Program at localhost:53887". The "Thread [main] (Suspended)" is selected, and the execution is paused at line 19 of "Program.main(String[] args)".
- Code Editor:** Displays the "Program.java" file. The code is as follows:

```
1 package student;
2
3 public class Program {
4
5     public static void main(String[] args) {
6
7         Student s1 = new Student("Juan", 2000);
8         Student s2 = new Student("Ana", 2500);
9         Student s3 = new Student("Pedro", 3500);
10
11         School High = new School();
12         High.addStudent(s1);
13         High.addStudent(s2);
14         High.addStudent(s3);
15
16         float getAverage = High.calculateAverage();
17         System.out.println("Average payment students: $" + getAverage);
18
19         float maxPayment = High.maxPayment();
20         System.out.println("Maximum payment of students is: " + maxPayment);
21
22         float diffAverage = High.sum - High.maxPayment;
23         System.out.println("The difference between average and maximum payment");
24     }
25 }
26
27
```
- Variables:** A table showing the current state of variables:

Name	Value
args	String[0]
s1	Student
s2	Student
s3	Student
High	School (0)
getAverage	2666.6667
- Console:** Displays the output of the program:

```
Program (4) [Java Application] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (20/08/2020, 7:40:06 a.m.)
Average payment students: $2666.6667
```



The screenshot shows an IDE with the following components:

- Project Explorer:** Shows a project named "Program (4) [Java Application]" with a file "student.Program at localhost:53887". The "Thread [main] (Suspended)" is selected, and the execution is paused at line 38 of "School.maxPayment()".
- Code Editor:** Displays the "School.java" file. The code is as follows:

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Debug | Project Explorer

Program (4) [Java Application]
student.Program at localhost:53962
Thread [main] (Suspended)
Program.main(String[]) line: 20
C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (20/08/2020)

Program.java | Student.java | School.java

```
1 package student;
2
3 public class Program {
4
5     public static void main(String[] args) {
6
7         Student S1 = new Student("Juan", 2000);
8         Student S2 = new Student("Ana", 2500);
9         Student S3 = new Student("Pedro", 3500);
10
11         School High = new School();
12         High.addStudent(S1);
13         High.addStudent(S2);
14         High.addStudent(S3);
15
16         float getAverage = High.calculateAverage();
17         System.out.println("Average payment students: $" + getAverage);
18
19         float maxPayment = High.maxPayment();
20         System.out.println("Maximum payment of students is: " + maxPayment);
21
22         float diffAverage = High.sum - High.maxPayment;
23         System.out.println("The difference between average and maximum payment");
24     }
25 }
26
27
```

Variables

Name	Value
no method return value	
args	String[0]
S1	Student
S2	Student
S3	Student
High	School (0
getAverage	2666.666
maxPayment	3500.0

Console | Problems | Debug Shell | Search

Program (4) [Java Application] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (20/08/2020, 8:27:24 a. m.)
Average payment students: \$2666.6667

Debug | Project Explorer

Program (4) [Java Application]
student.Program at localhost:53962
Thread [main] (Suspended)
Program.main(String[]) line: 22
C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (20/08/2020)

Program.java | Student.java | School.java

```
1 package student;
2
3 public class Program {
4
5     public static void main(String[] args) {
6
7         Student S1 = new Student("Juan", 2000);
8         Student S2 = new Student("Ana", 2500);
9         Student S3 = new Student("Pedro", 3500);
10
11         School High = new School();
12         High.addStudent(S1);
13         High.addStudent(S2);
14         High.addStudent(S3);
15
16         float getAverage = High.calculateAverage();
17         System.out.println("Average payment students: $" + getAverage);
18
19         float maxPayment = High.maxPayment();
20         System.out.println("Maximum payment of students is: " + maxPayment);
21
22         float diffAverage = High.sum - High.maxPayment;
23         System.out.println("The difference between average and maximum payment");
24     }
25 }
26
27
```

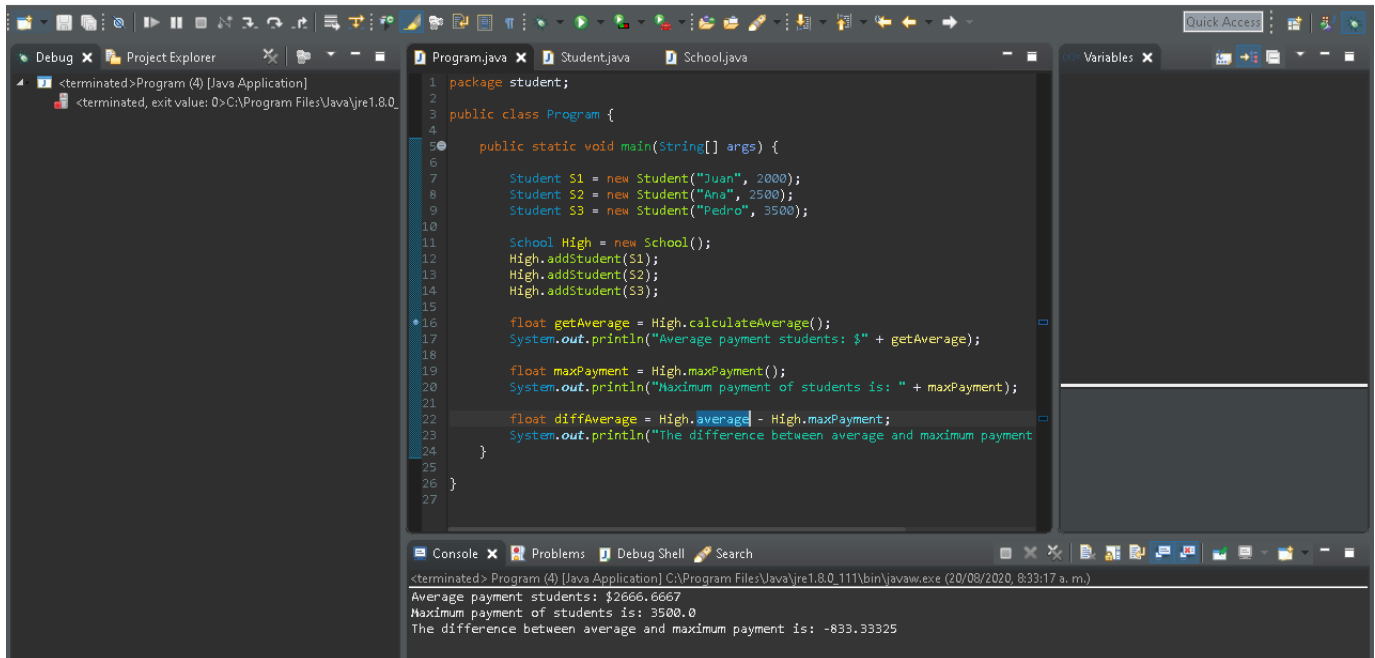
Variables

Name	Value
no method return value	
args	String[0]
S1	Student
S2	Student
S3	Student
High	School (0
getAverage	2666.666
maxPayment	3500.0

Console | Problems | Debug Shell | Search

Program (4) [Java Application] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (20/08/2020, 8:27:24 a. m.)
Average payment students: \$2666.6667
Maximum payment of students is: 3500.0

Difference between average and maximum payment



The screenshot shows an IDE with three tabs: Program.java, Student.java, and School.java. The Program.java tab is active, displaying the following code:

```
1 package student;
2
3 public class Program {
4
5     public static void main(String[] args) {
6
7         Student s1 = new Student("Juan", 2000);
8         Student s2 = new Student("Ana", 2500);
9         Student s3 = new Student("Pedro", 3500);
10
11         School High = new School();
12         High.addStudent(s1);
13         High.addStudent(s2);
14         High.addStudent(s3);
15
16         float getAverage = High.calculateAverage();
17         System.out.println("Average payment students: $" + getAverage);
18
19         float maxPayment = High.maxPayment();
20         System.out.println("Maximum payment of students is: " + maxPayment);
21
22         float diffAverage = High.average - High.maxPayment;
23         System.out.println("The difference between average and maximum payment");
24     }
25 }
26
27
```

The Console window at the bottom shows the output of the program:

```
<terminated> Program (4) [Java Application] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (20/08/2020, 8:33:17 a. m.)
Average payment students: $2666.6667
Maximum payment of students is: 3500.0
The difference between average and maximum payment is: -833.33325
```