

The screenshot shows a Visual Studio Code editor with a file named `tasks.json` open. The file contains a task configuration for `set1.js`. The terminal window at the bottom shows the command `node set1.js` being executed, which results in an error message: `model: The term 'model' is not recognized as the name of a command, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.` The error message is displayed in the terminal window.

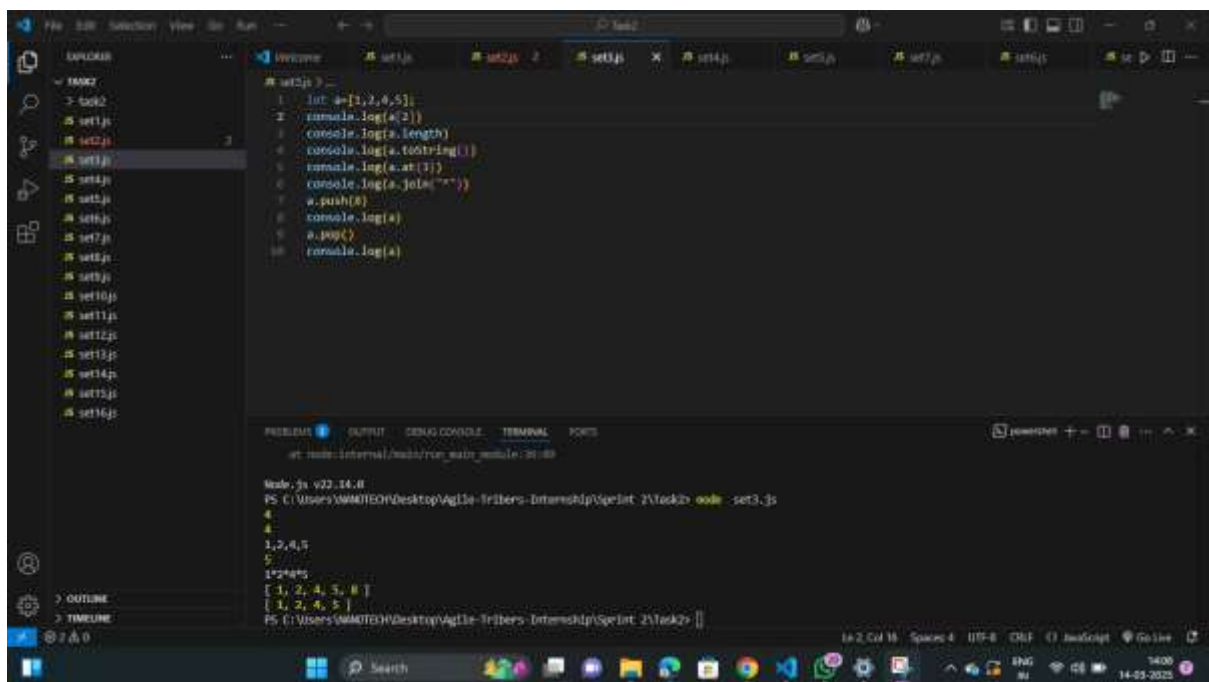
The screenshot shows a VS Code editor with a file named 'set2.js' open. The code in the file is:

```
1. const c=10;
2. console.log(c);
3. const c=5;
```

The terminal output shows the command 'code set2.js' and the error message:

```
SyntaxError: Identifier 'c' has already been declared
    at wrapSafe (node:internal/modules/cjs/loader:146:18)
    at Module._compile (node:internal/modules/cjs/loader:128:20)
    at Object. (node:internal/modules/cjs/loader:170:36)
    at Module.load (node:internal/modules/cjs/loader:128:32)
    at Function._load (node:internal/modules/cjs/loader:108:12)
```

## Set3



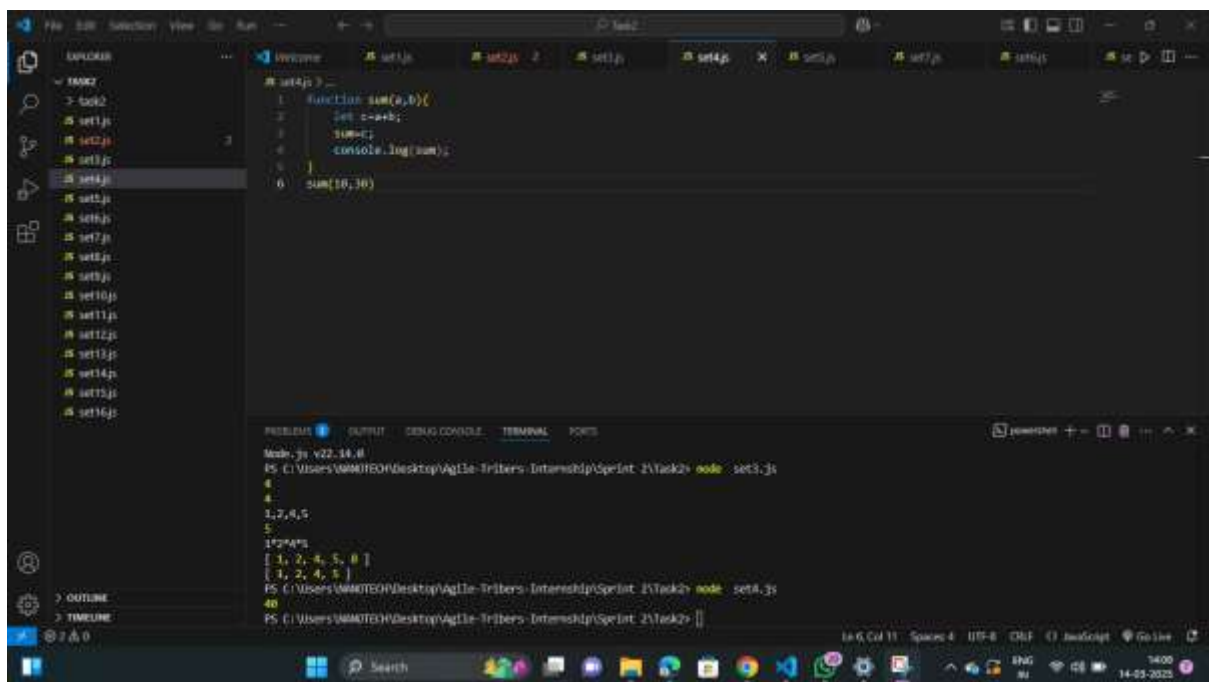
The screenshot shows the VS Code editor with a file named `set3.js` open. The code in the editor is as follows:

```
1 let a=[1,2,4,5];
2 console.log(a[2]);
3 console.log(a.length);
4 console.log(a.toString());
5 console.log(a.at(1));
6 console.log(a.join(""));
7 a.push(8);
8 console.log(a);
9 a.pop();
10 console.log(a);
```

The terminal output shows the execution of the code:

```
node:internal/modules/run_main:10:18
Node.js v22.14.0
PS C:\Users\WAMTEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set3.js
4
1,2,4,5
5
1*2*4*5
[ 1, 2, 4, 5, 8 ]
[ 1, 2, 4, 5 ]
PS C:\Users\WAMTEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>
```

## Set4



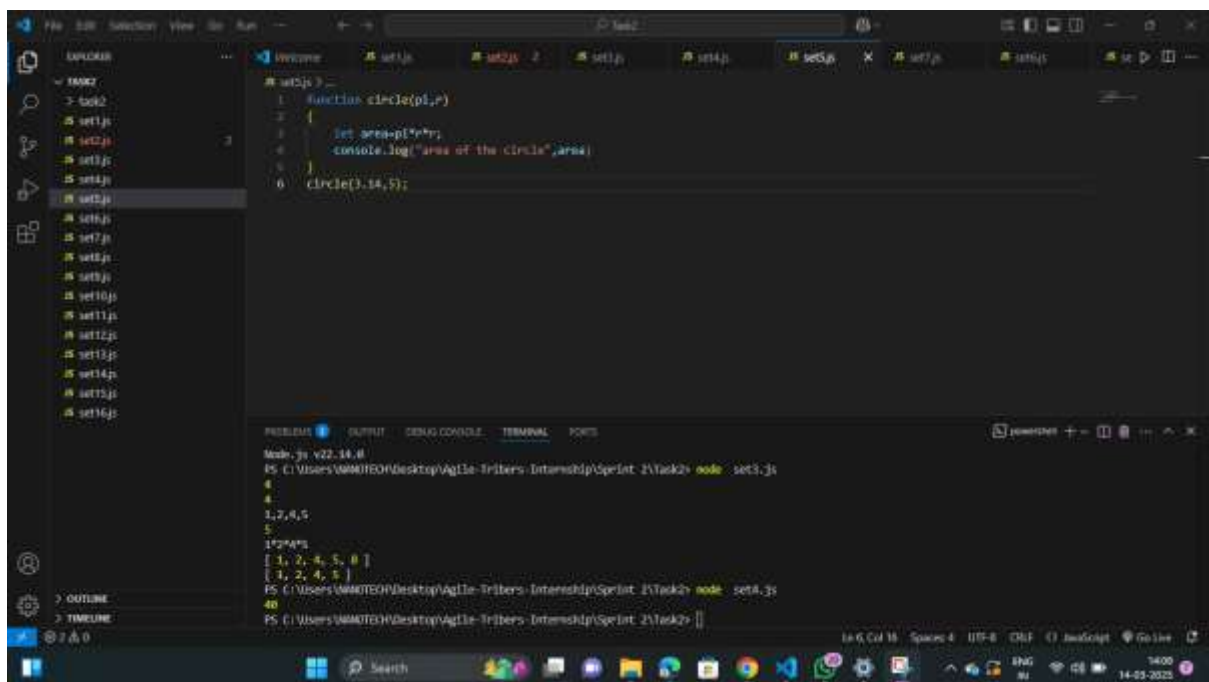
The screenshot shows the VS Code editor with a file named `set4.js` open. The code in the editor is as follows:

```
1 function sum(a,b){
2   let c=a+b;
3   sum=c;
4   console.log(sum);
5 }
6 sum(10,30)
```

The terminal output shows the execution of the code:

```
node:js v22.14.0
PS C:\Users\WAMTEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set3.js
4
1,2,4,5
5
1*2*4*5
[ 1, 2, 4, 5, 8 ]
[ 1, 2, 4, 5 ]
PS C:\Users\WAMTEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set4.js
40
PS C:\Users\WAMTEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>
```

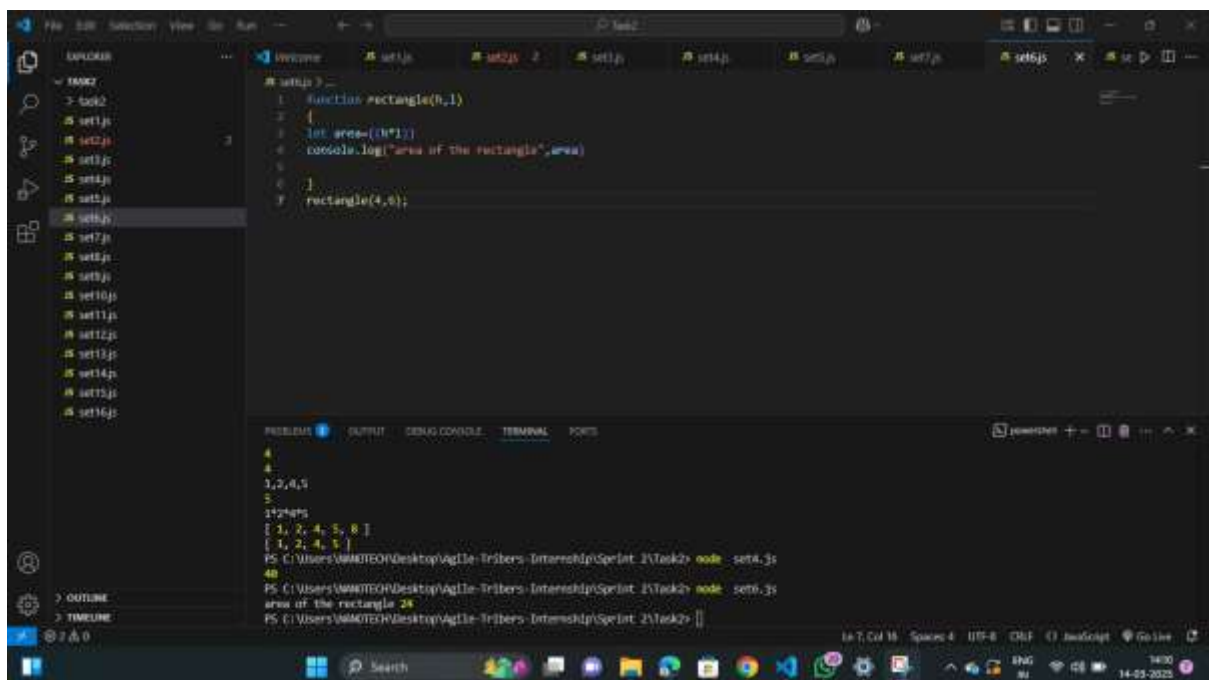
## Set5



```
1 function circle(p1,p)
2 {
3   let area=p1*p*r;
4   console.log("area of the circle",area)
5 }
6 circle(3.14,5);
```

```
node.js v22.14.0
PS C:\Users\WMAITEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set5.js
4
1,2,4,5
5
1*2*4*5
[ 1, 2, 4, 5, 0 ]
[ 1, 2, 4, 5 ]
PS C:\Users\WMAITEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set6.js
40
PS C:\Users\WMAITEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>
```

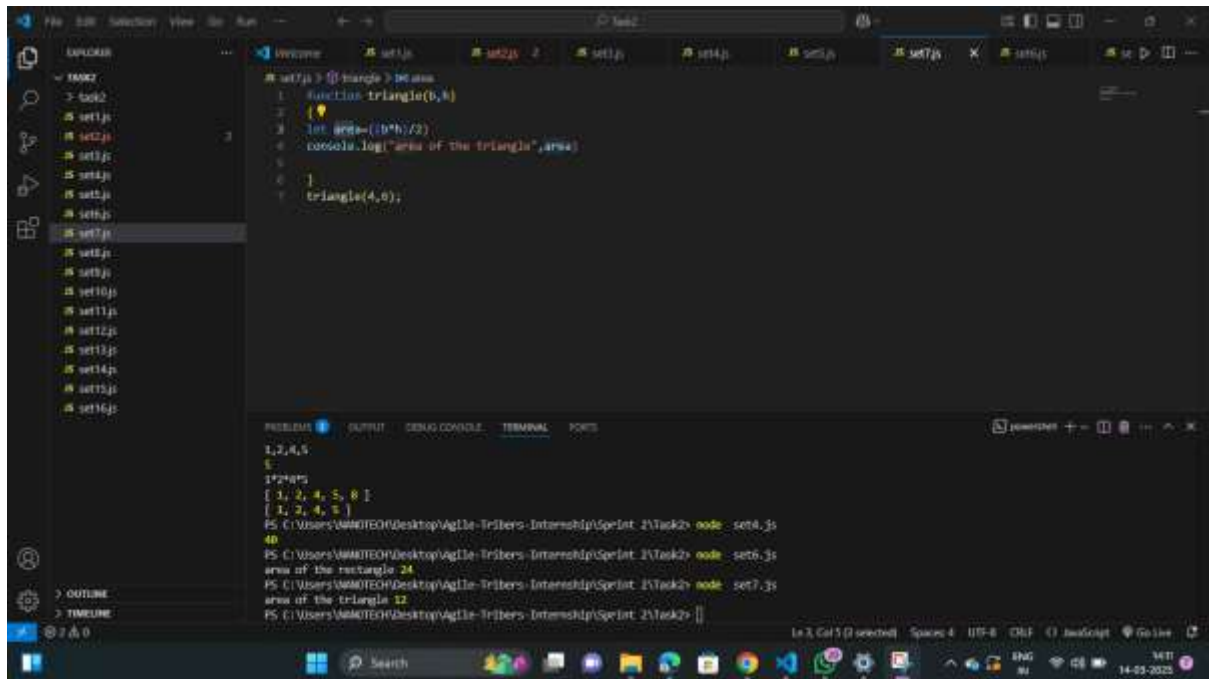
## Set6



```
1 function rectangle(h,l)
2 {
3   let area=(h*l);
4   console.log("area of the rectangle",area)
5 }
6 rectangle(4,6);
```

```
node.js v22.14.0
PS C:\Users\WMAITEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set6.js
area of the rectangle 24
PS C:\Users\WMAITEON\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>
```

## Set7



The screenshot shows a VS Code editor with a file explorer on the left containing files from task2.js to task16.js. The main editor displays the code for task7.js, which defines a function to calculate the area of a triangle and calls it with base 4 and height 6. The terminal at the bottom shows the execution of tasks 4 through 7, with task 7 outputting the area of the triangle as 12.

```

1 //task7.js > @ triangle > bc area
2 function triangle(b,h)
3 {
4   let area=(b*h)/2;
5   console.log("area of the triangle",area);
6 }
7 triangle(4,6);

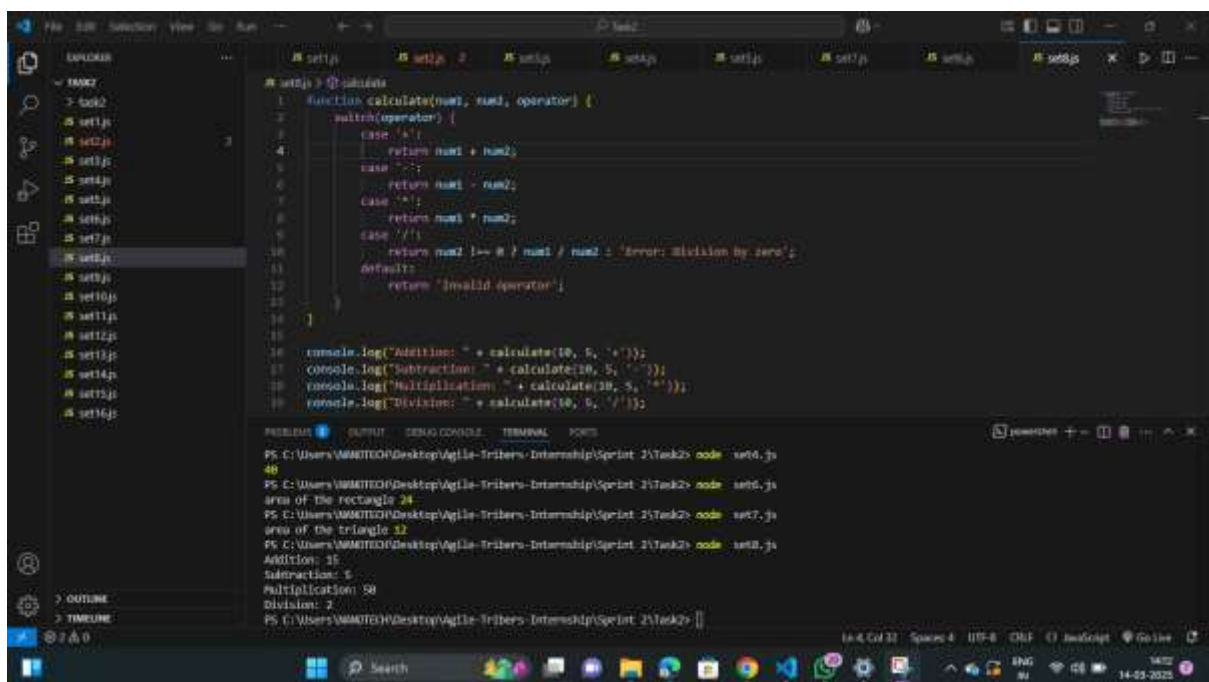
```

```

1,2,4,5
1
1724ms
[ 1, 2, 4, 5, 8 ]
[ 1, 2, 4, 5 ]
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node task4.js
40
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node task6.js
area of the rectangle 24
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node task7.js
area of the triangle 12
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>

```

## Set8



The screenshot shows a VS Code editor with the same file explorer as Set7. The main editor displays the code for task8.js, which defines a function to perform arithmetic operations based on a string operator. The terminal shows the execution of tasks 4 through 8, with task 8 outputting the results of addition, subtraction, multiplication, and division for the values 10, 5, and 2.

```

1 //task8.js > @ calculate
2 function calculate(num1, num2, operator) {
3   switch(operator) {
4     case '+':
5       return num1 + num2;
6     case '-':
7       return num1 - num2;
8     case '*':
9       return num1 * num2;
10    case '/':
11      return num2 !== 0 ? num1 / num2 : 'Error: Division by zero';
12    default:
13      return 'Invalid operator';
14  }
15 }
16 console.log("Addition: " + calculate(10, 5, '+'));
17 console.log("Subtraction: " + calculate(10, 5, '-'));
18 console.log("Multiplication: " + calculate(10, 5, '*'));
19 console.log("Division: " + calculate(10, 5, '/'));

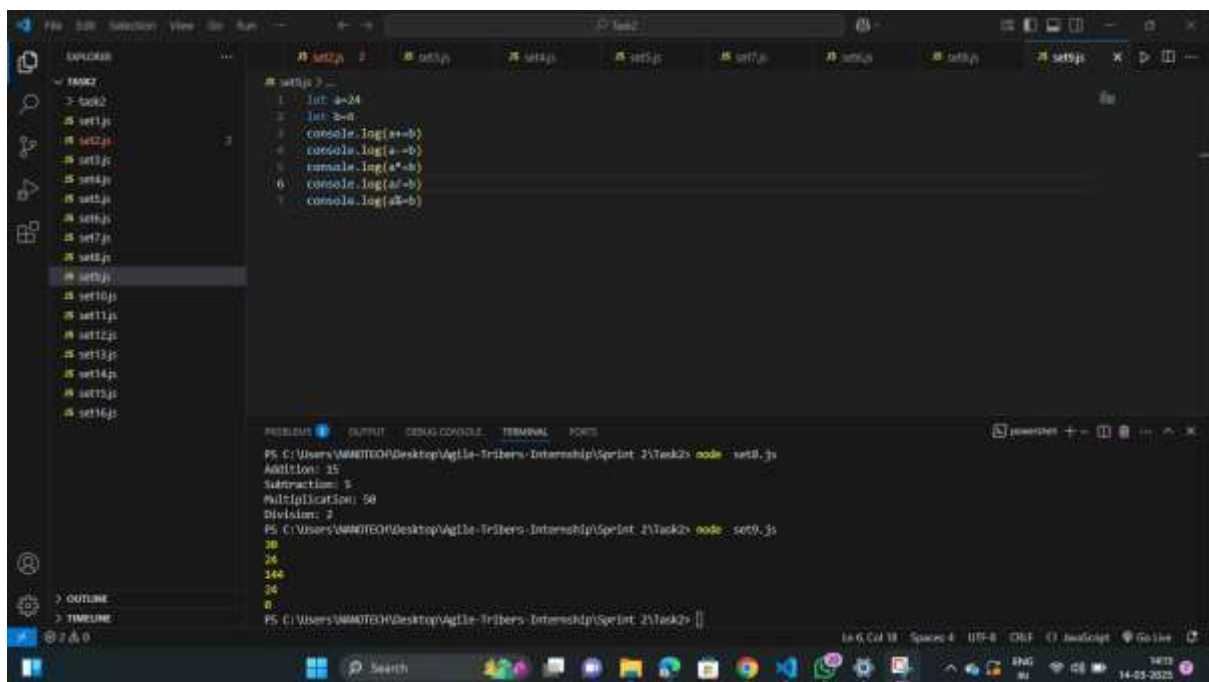
```

```

PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node task4.js
40
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node task6.js
area of the rectangle 24
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node task7.js
area of the triangle 12
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node task8.js
Addition: 15
Subtraction: 5
Multiplication: 50
Division: 2
PS C:\Users\WAMTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>

```

## Set9



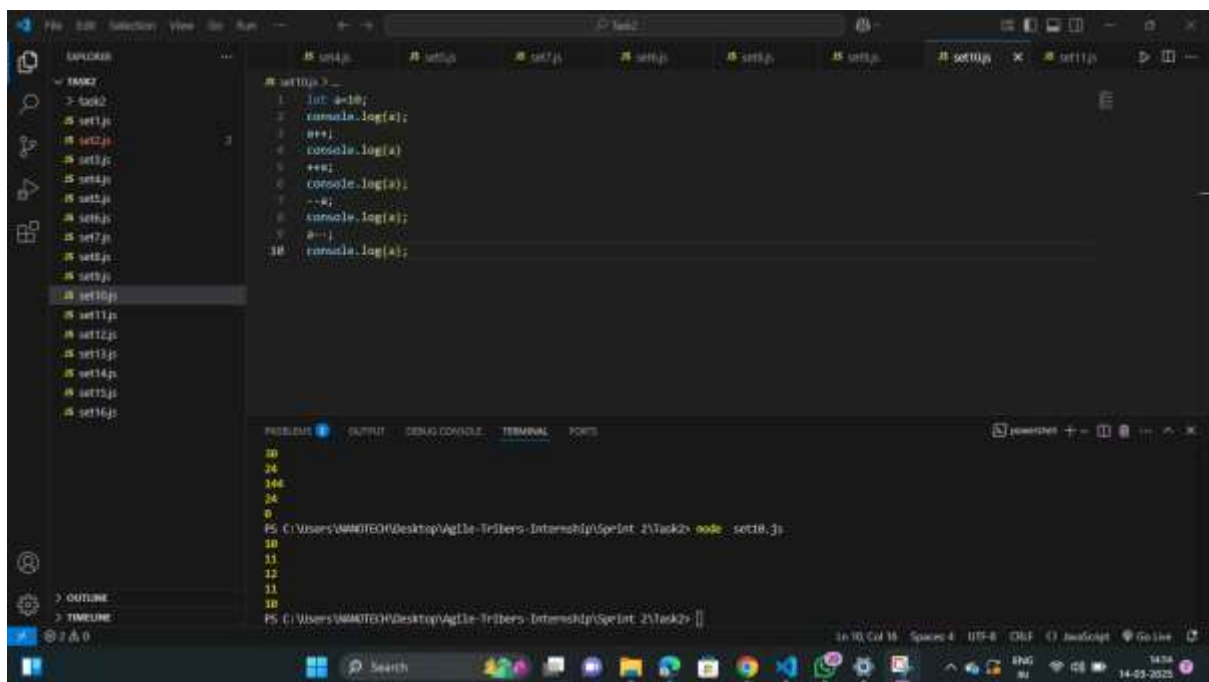
The screenshot shows a VS Code editor with a file explorer on the left containing a folder named 'TASK2' with files 'task2.js' through 'task9.js'. The main editor displays 'Set9.js' with the following code:

```
1. let a=24
2. let b=0
3. console.log(a+b)
4. console.log(a-b)
5. console.log(a*b)
6. console.log(a/-b)
7. console.log(a%b)
```

The terminal at the bottom shows the command `node set9.js` and its output:

```
PS C:\Users\WAKTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set9.js
Addition: 24
Subtraction: 24
Multiplication: 0
Division: NaN
PS C:\Users\WAKTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set9.js
24
24
0
NaN
```

## Set10



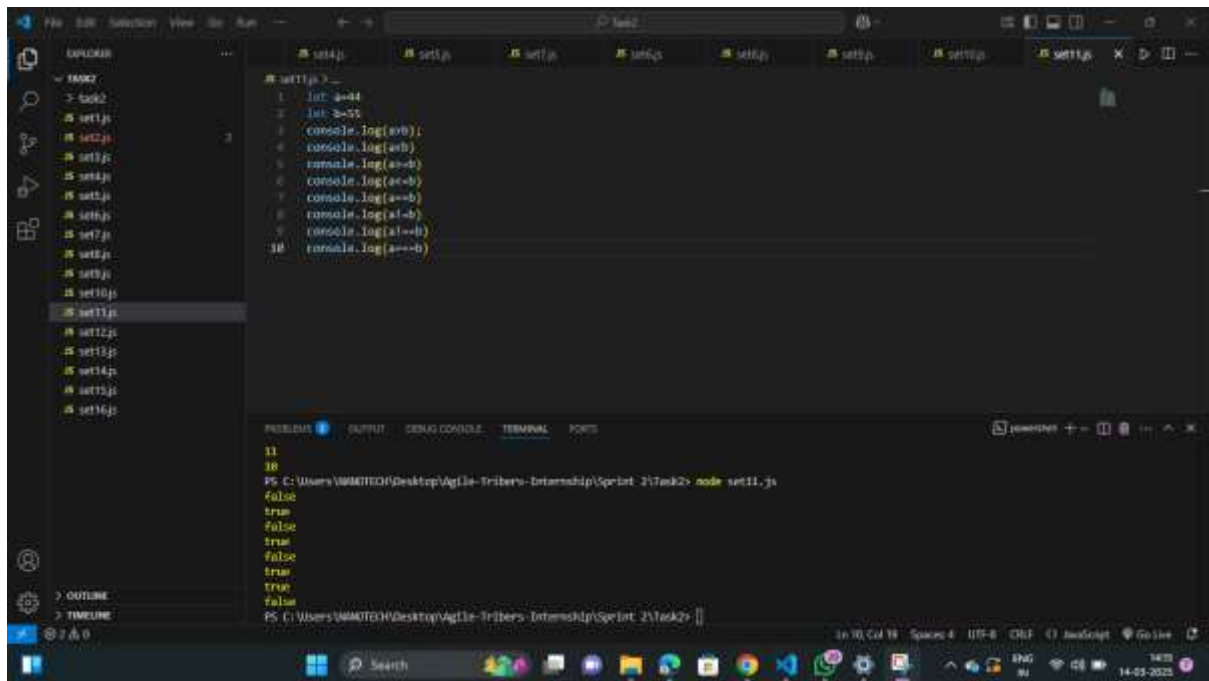
The screenshot shows a VS Code editor with a file explorer on the left containing a folder named 'TASK2' with files 'task1.js' through 'task10.js'. The main editor displays 'Set10.js' with the following code:

```
1. let a=10;
2. console.log(a);
3. ++a;
4. console.log(a);
5. ++a;
6. console.log(a);
7. --a;
8. console.log(a);
9. a--;
10. console.log(a);
```

The terminal at the bottom shows the command `node set10.js` and its output:

```
PS C:\Users\WAKTECH\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set10.js
10
11
12
11
10
```

## Set11



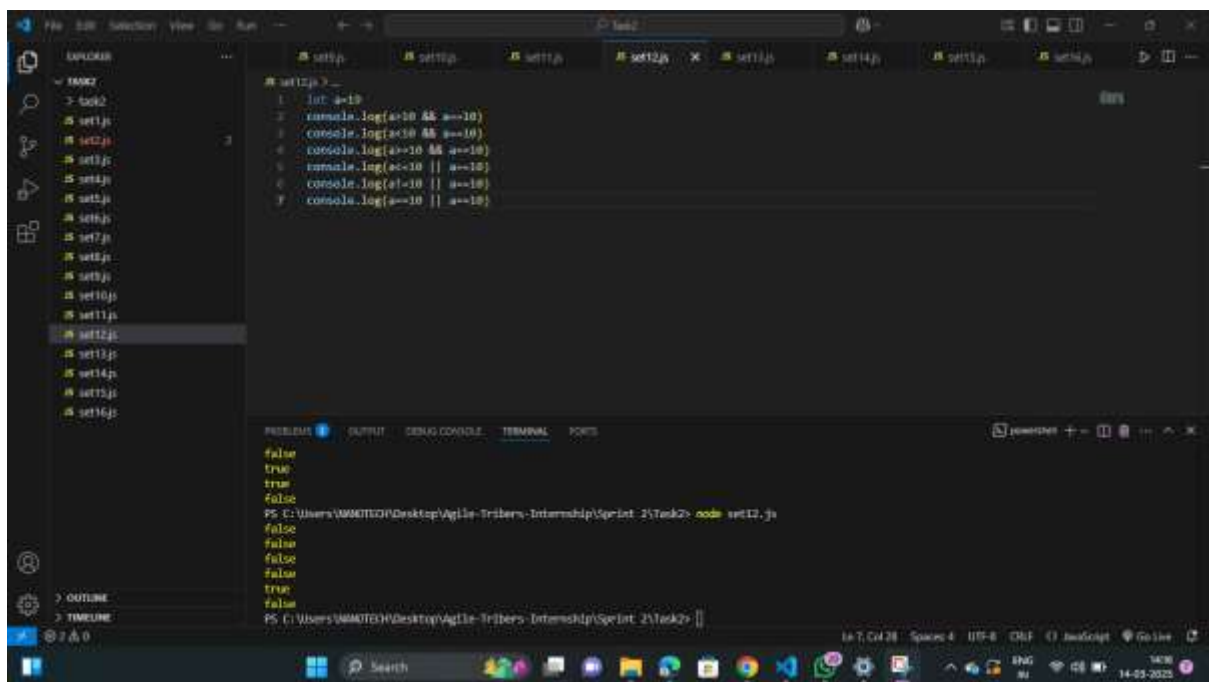
The screenshot shows the Visual Studio Code editor with a file explorer on the left containing a folder named 'TASK2' with files 'task2.js' through 'task16.js'. The main editor displays 'Set11.js' with the following code:

```
1. let a=44
2. let b=55
3. console.log(a>b);
4. console.log(a<b);
5. console.log(a==b);
6. console.log(a===b);
7. console.log(a!=b);
8. console.log(a!==b);
9. console.log(a!==b);
10. console.log(a===b);
```

The bottom panel shows the 'TERMINAL' tab with the following output:

```
11
10
PS C:\Users\WAMOTED\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set11.js
false
true
false
true
true
true
true
false
PS C:\Users\WAMOTED\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>
```

## Set12



The screenshot shows the Visual Studio Code editor with the same file explorer as Set11. The main editor displays 'Set12.js' with the following code:

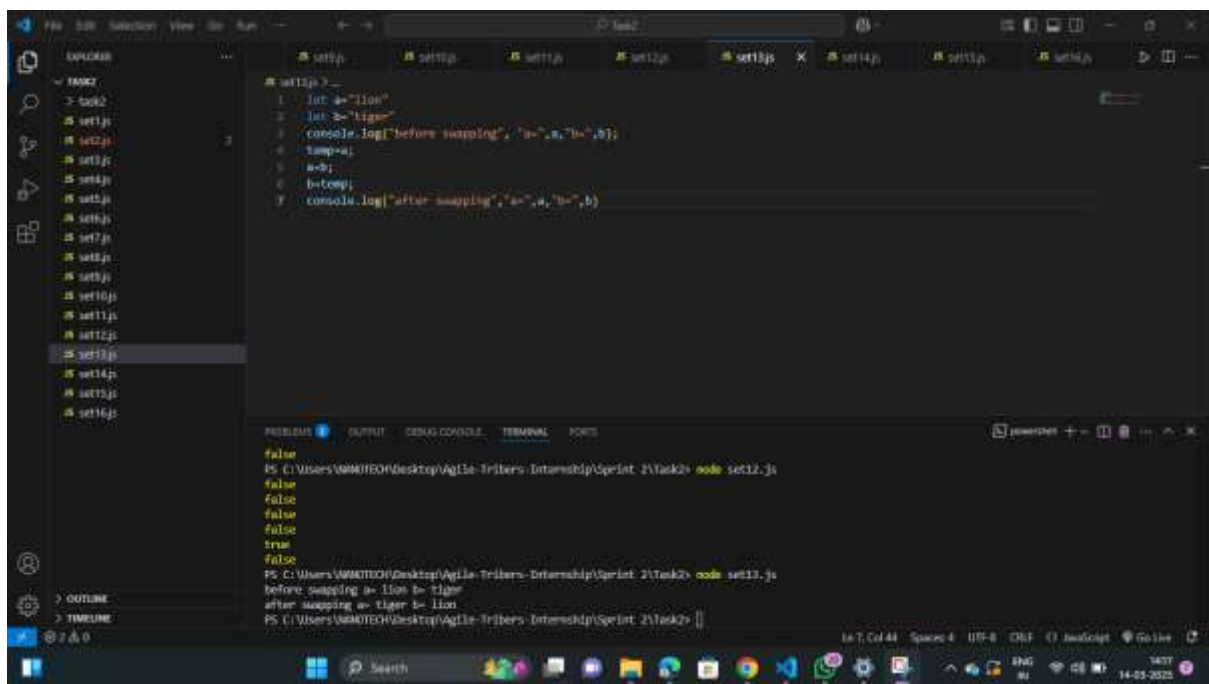
```
1. let a=10
2. console.log(a<10 && a==10);
3. console.log(a<10 && a!=10);
4. console.log(a>10 && a==10);
5. console.log(a>10 || a==10);
6. console.log(a<10 || a==10);
7. console.log(a==10 || a==10);
```

The bottom panel shows the 'TERMINAL' tab with the following output:

```
false
true
true
false
false
false
true
false
PS C:\Users\WAMOTED\Desktop\Agile-Tribers-Internship\Sprint_2\Task2> node set12.js
false
false
false
false
false
true
false
PS C:\Users\WAMOTED\Desktop\Agile-Tribers-Internship\Sprint_2\Task2>
```



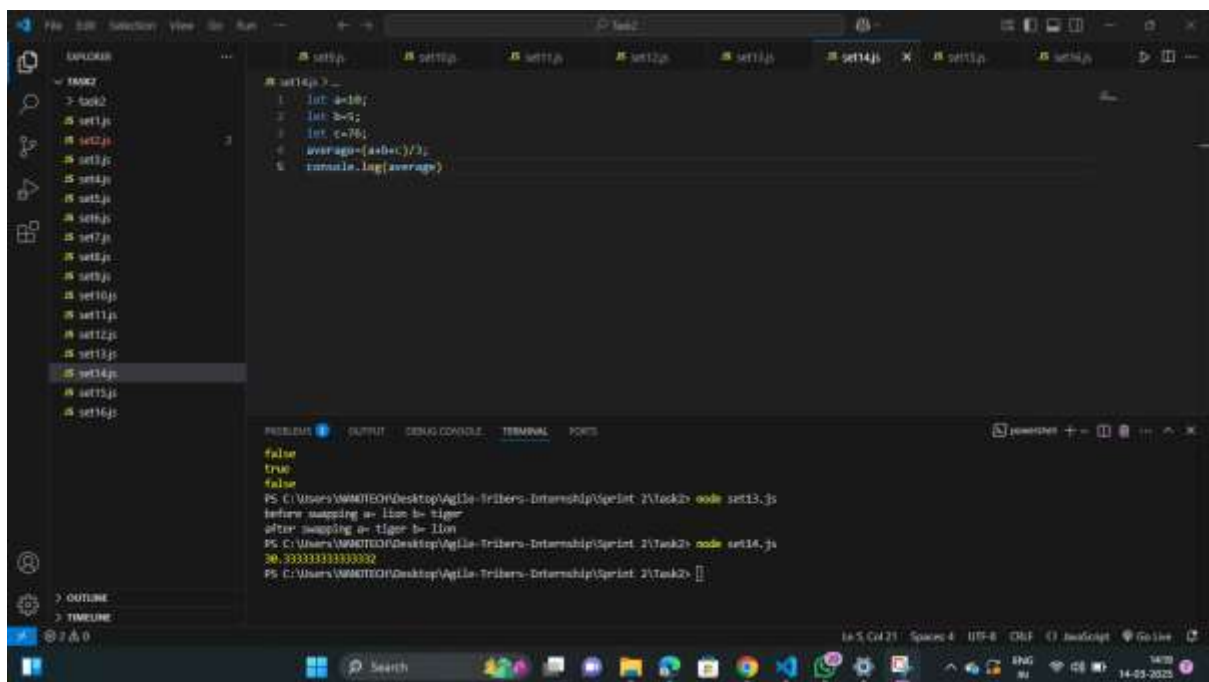
## Set13



```
set13.js
1  let a="lion"
2  let b="tiger"
3  console.log("before swapping", "a=",a,"b=",b);
4  temp=a;
5  a=b;
6  b=temp;
7  console.log("after swapping", "a=",a,"b=",b)
```

```
false
PS C:\Users\WAMTED\Desktop\Agile-Tribers-Internship\Sprint 2\Task2> code set13.js
false
false
false
false
true
false
PS C:\Users\WAMTED\Desktop\Agile-Tribers-Internship\Sprint 2\Task2> code set13.js
before swapping a= lion b= tiger
after swapping a= tiger b= lion
PS C:\Users\WAMTED\Desktop\Agile-Tribers-Internship\Sprint 2\Task2>
```

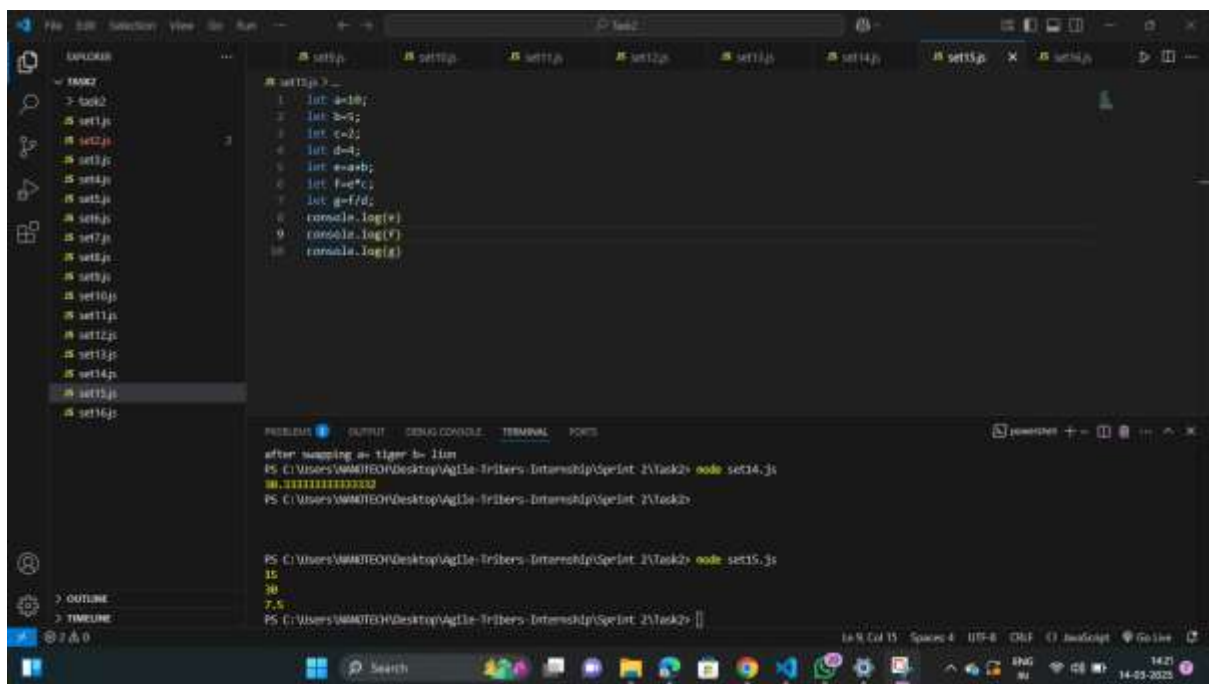
## Set14



```
set14.js
1  let a=10;
2  let b=5;
3  let c=70;
4  average=(a+b*c)/3;
5  console.log(average)
```

```
false
true
false
PS C:\Users\WAMTED\Desktop\Agile-Tribers-Internship\Sprint 2\Task2> code set13.js
before swapping a= lion b= tiger
after swapping a= tiger b= lion
PS C:\Users\WAMTED\Desktop\Agile-Tribers-Internship\Sprint 2\Task2> code set14.js
30.333333333333332
PS C:\Users\WAMTED\Desktop\Agile-Tribers-Internship\Sprint 2\Task2>
```

## Set15



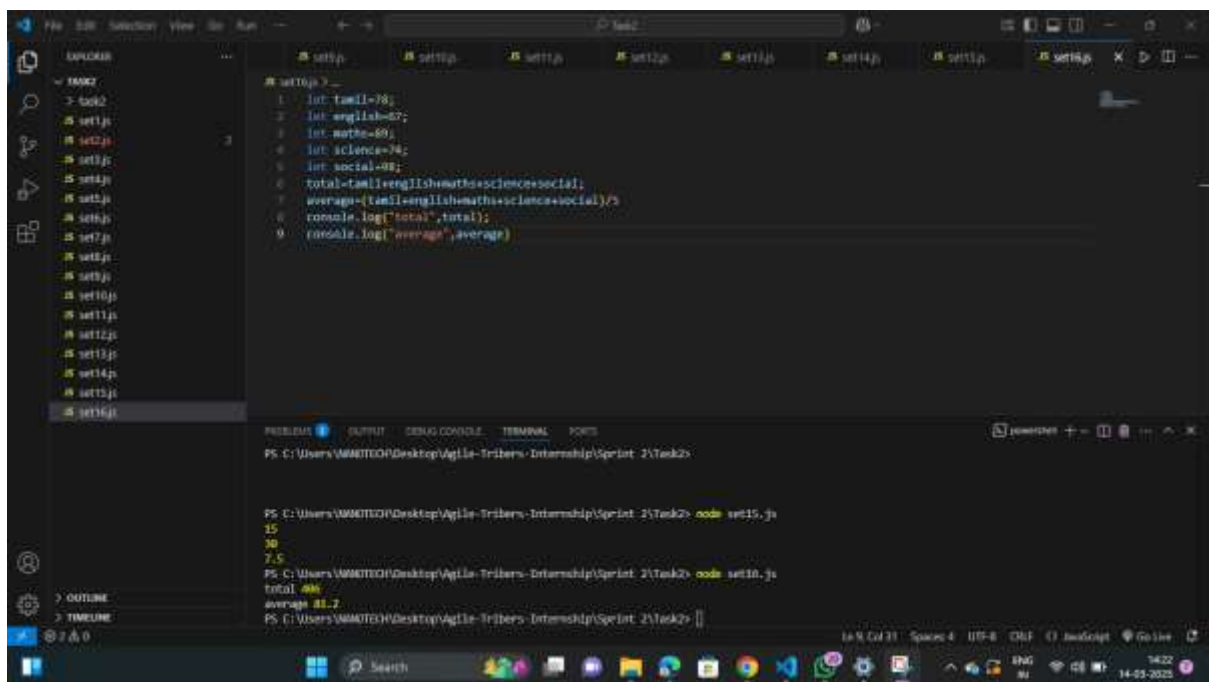
The screenshot shows the VS Code editor with a file explorer on the left containing a folder named 'TASK2' with files 'task2.js' through 'task16.js'. The main editor displays 'Set15.js' with the following code:

```
1. let a=10;
2. let b=5;
3. let c=2;
4. let d=4;
5. let e=a+b;
6. let f=a*c;
7. let g=f/d;
8. console.log(e)
9. console.log(f)
10. console.log(g)
```

The terminal at the bottom shows the execution of 'node set15.js' in the directory 'C:\Users\WAMTEO\Desktop\Agile-Tribers-Internship\Sprint\_2\Task2'. The output is:

```
after swapping a= tiger b= lion
15
30
7.5
```

## Set16



The screenshot shows the VS Code editor with the same file explorer as Set15. The main editor displays 'Set16.js' with the following code:

```
1. let tamil=78;
2. let english=67;
3. let maths=89;
4. let science=74;
5. let social=98;
6. total=tamil+english+maths+science+social;
7. average=(tamil+english+maths+science+social)/5;
8. console.log("total",total);
9. console.log("average",average)
```

The terminal at the bottom shows the execution of 'node set16.js' in the directory 'C:\Users\WAMTEO\Desktop\Agile-Tribers-Internship\Sprint\_2\Task2'. The output is:

```
total 496
average 99.2
```