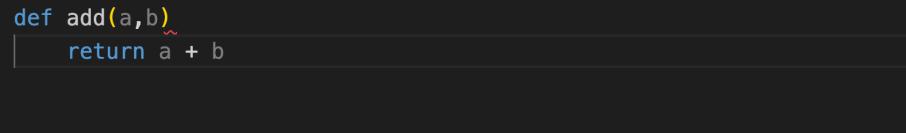


## 7.3

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## Task -1

## Given Code:



The screenshot shows a code editor with a Python file named `7.3-ai.py`. The code contains a function definition:

```
1 def add(a,b)
2     return a + b
```

The line `def add(a,b)` has a red underline under the parameter `b`, indicating a syntax error. The code editor interface includes tabs for DEBUG CONSOLE, OUTPUT (with a red '1' notification), PORTS, and TERMINAL. The TERMINAL tab is active, displaying the following error message:

```
/Users/rishwanthyeruva/.zshrc:2: command not found: Export
rishwanthyeruva@Rishwanths-MacBook-Pro ~ % /usr/local/bin/python3 "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/7.3-ai.py"
  File "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/7.3-ai.py", line 1
    def add(a,b)
    ^
SyntaxError: expected ':'
```

The terminal also shows the user's name and the current directory.

## AI generated explanation:

I can see the task involves fixing a Python syntax error in the file '7.3-ai.py'.

## Analysis

Looking at the file content, I can identify the issue:

**Current code:** `def add(a, b)` (missing colon)

**Required syntax:** `def add(a,b):`    (missing colon after function definition)

## Plan

1. Fix the syntax error - Add the missing colon `:` at the end of the function definition line
2. The fix is straightforward since there's only one issue in the file

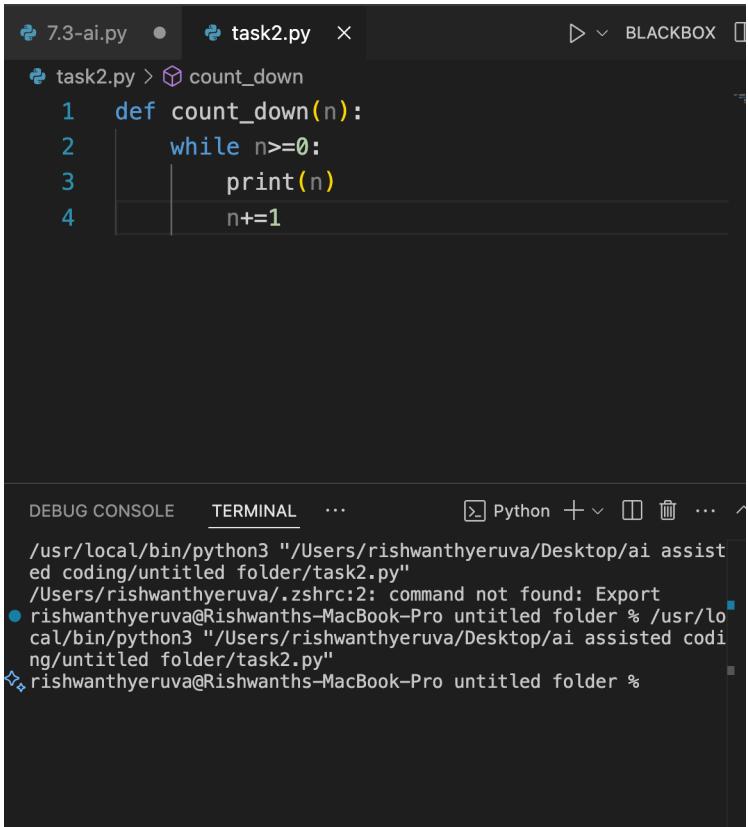
Let me implement the fix:

## AI generated Code:

```
7.3-ai.py > add
1  def add(a,b):
2      return a + b
3
```

## Task -2

Given Code:



The screenshot shows a code editor with two tabs: `7.3-ai.py` and `task2.py`. The `task2.py` tab is active, displaying the following code:

```
task2.py > count_down
1  def count_down(n):
2      while n>=0:
3          print(n)
4          n+=1
```

Below the code editor is a terminal window with the following content:

```
DEBUG CONSOLE  TERMINAL  ...
/usr/local/bin/python3 "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task2.py"
/rishwanthyeruva@Rishwanths-MacBook-Pro: command not found: Export
● rishwanthyeruva@Rishwanths-MacBook-Pro: command not found % /usr/local/bin/python3 "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task2.py"
rishwanthyeruva@Rishwanths-MacBook-Pro: command not found %
```

## AI generated explanation:

I see the issue in 'task2.py'. The function is named `count_down` but it's counting UP instead of DOWN.

## Analysis:

- Current code: `n+=1` increments (counts up)
- Should be: `n-=1` to decrement (count down)

## AI generated Code:



```
7.3-ai.py ● task2.py ✘ BLACKBOX □
task2.py > ...
1 def count_down(n):
2     while n>=0:
3         print(n)
4         n-=1
5
```

## Task -3

Given Code:

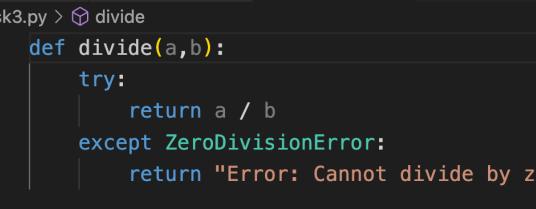
```
task3.py > ...
1  def divide(a,b):
2      return a / b
3  print(divide(10,0))

DEBUG CONSOLE  OUTPUT  TERMINAL  ...
/usr/local/bin/python3 "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task3.py"
/Users/rishwanthyeruva/.zshrc:2: command not found: Export
@ rishwanthyeruva@Rishwanth's-MacBook-Pro:~$ /usr/local/bin/python3 "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task3.py"
Traceback (most recent call last):
  File "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task3.py", line 3, in <module>
    print(divide(10,0))
    ^~~~~~
  File "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task3.py", line 2, in divide
    return a / b
    ^~~~
ZeroDivisionError: division by zero
```

## AI generated explanation:

I see the issue in 'task3.py'. The code tries to divide by zero (`divide(10, 0)`), which will cause a `zeroDivisionError`.

## AI generated Code:



The screenshot shows a Jupyter Notebook interface with the following content:

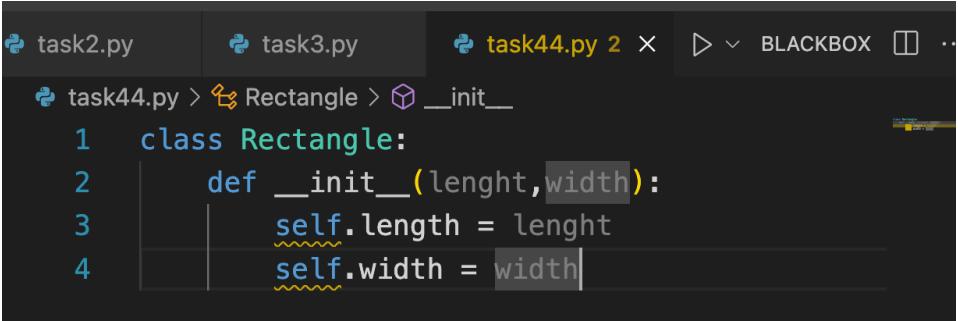
```
task3.py > divide
1 def divide(a,b):
2     try:
3         return a / b
4     except ZeroDivisionError:
5         return "Error: Cannot divide by zero"
6
7 print(divide(10,0))
8
```

Below the code, the output of cell 8 is displayed:

```
DEBUG CONSOLE TERMINAL ...
[Python] ...
/Users/rishwanthyeruva/.zshrc:2: command not found: Export
/usr/local/bin/python3 "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task3.py"
● rishwanthyeruva@Rishwanth-MacBook-Pro ~ /usr/local/bin/python3 "/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task3.py"
Error: Cannot divide by zero
rishwanthyeruva@Rishwanth-MacBook-Pro ~
```

## Task -4

Given Code:



task2.py task3.py task44.py 2 x BLACKBOX ..

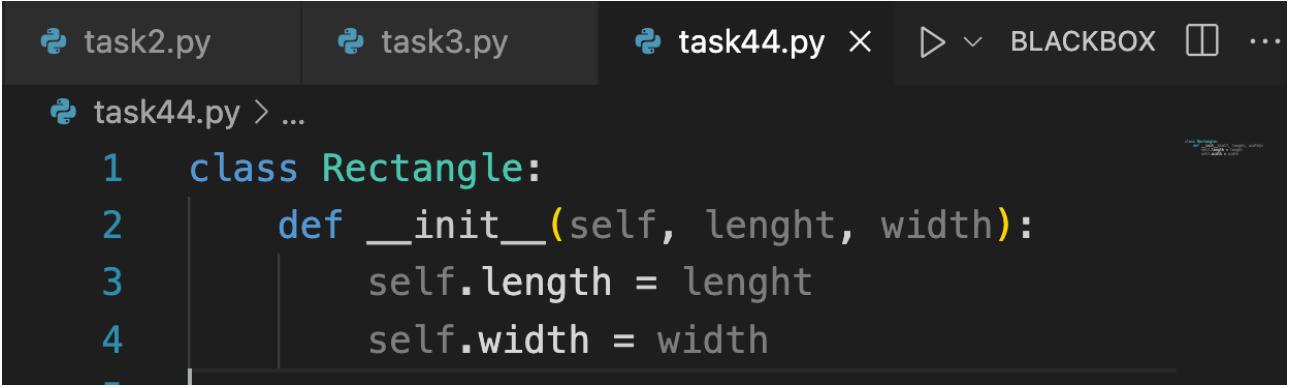
task44.py > Rectangle > \_\_init\_\_

```
1 class Rectangle:
2     def __init__(lenght, width):
3         self.length = lenght
4         self.width = width
```

## AI generated explanation:

I can see the issue in 'task44.py'. The `__init__` method is missing `self` as the first parameter. Let me fix this:

## AI generated Code:



task2.py task3.py task44.py x BLACKBOX ..

task44.py > ...

```
1 class Rectangle:
2     def __init__(self, lenght, width):
3         self.length = lenght
4         self.width = width
```

## Task -5

Given Code:

## AI generated explanation:

I can see the issue in 'task5.py'. The code tries to access index 5 in a list with only 3 elements (valid indices: 0, 1, 2), which causes an `IndexError`

## AI generated Code:



The image shows a code editor with a dark theme. At the top, there are tabs for 'task3.py', 'task44.py', 'task5.py', and 'BLACKBOX'. The 'task5.py' tab is active. Below the tabs, the code is displayed in a syntax-highlighted editor:

```
task5.py > ...
1 numbers=[1,2,3]
2 print(numbers[2])
3
```

Below the code editor is a terminal window with the following content:

```
DEBUG CONSOLE OUTPUT TERMINAL ... ⚡ blackbox + ↻
```

The terminal shows the following output:

```
/Users/rishwanthyeruva/.zshrc:2: command not found: Export
● rishwanthyeruva@Rishwanths-MacBook-Pro ~ % python3
  -c "exec(open('/Users/rishwanthyeruva/Desktop/ai assisted coding/untitled folder/task5.py').read())"
3
```