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IT Specialist
Python Next Generation
Exam Tutorial

Python - Next Generation

- The lab forms of this exam have items in three sections.
  - **Question Section 1:** 16 questions
  - **Lab Section:** 7 tasks to perform in VS Code
  - **Question Section 2:** 8 questions
- Your form might not include a lab. Forms without a lab have 35 questions in a single section.
- The maximum exam time is **50** minutes.

The tutorial (this page) provides helpful information about the exam environment. Read the tutorial carefully. When you are ready to begin taking the exam, select Start Exam.

Exam Process

The exam experience follows this process. The exam timer starts as soon as you complete the tutorial.

1 **Questions Section 1.** The exam timer <u>starts</u> and the questions appear. You can move forward and back through them, answer them, and mark them for review or feedback. After you click **Finish Section** on the Summary screen, you cannot return to it. The timer is paused while the lab section loads.

2 **Lab Section.** The lab section opens VS Code. You perform the tasks by writing code in a VS Code file. After you Submit this section, you cannot return to it.

3 **Questions Section 2.** The second set of questions appear. You can move forward and back through the questions in this section, answer them, and mark them for review or feedback. After you click **Finish Exam**, you will be able to leave feedback on the questions and lab tasks. Select **Exit Exam** to display your score report.

> Warning:
>
> The lab exists for only one hour. If you accidentally close the exam during the lab, you must resume your exam before the lab ends. If you resume after the lab ends, you will receive an Access Denied message because your lab will have already been scored. Click the **Next** button to continue to **Question Section 2**. You will receive points for all tasks performed prior to closing the exam.

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Question Section Interface and Controls

Each page of the exam has three panes.

1 | **Question 2 of 45** | Time Remaining **00:42:52**

You are purchasing a new iPhone.

2 You need to select the phone that weighs the least.

Which model should you choose?

- A. iPhone X
- B. iPhone 8
- C. iPhone 7
- D. iPhone 6s

3 Go to Summary | Mark for Review | Mark for Feedback | Tools ▾ | Back | Next

1 The Information pane at the top of the page shows the current question number, the total number of questions in the current section, and the remaining exam time. The progress bar fills to indicate the percentage of questions in that section answered.

2 The Content pane in the center of the page contains the question and answer options. **Some Content panes are divided horizontally or vertically into panes. You might need to move the pane dividers or scroll panes to see all the content.**

3 The Navigation pane at the bottom of the page contains the following commands for moving through the exam.

Go to Summary	Displays the Section Summary page that shows the questions in the current section that you have answered, not answered, marked for review, and marked for feedback.
Mark for Review	Flags the question to indicate that you want to return to it before you finish the section.
Mark for Feedback	Flags the question to indicate that you want to leave feedback about it after you complete the exam.
Tools ▾	Displays a menu of commands that allow you to access exam environment instructions or change the color scheme. Other tools, such as a calculator or reset button, might be available for the current question.
Back	Saves your response and moves to the previous question.
Next	Saves your response and moves to the next question.

Summary Screens

The Summary page appears after the final question in the each section of questions. You can also move to this page by selecting **Go to Summary** from any question.

The Summary indicates the questions you answered, have not answered, marked for review, and marked for feedback.

Exam Summary			Time Remaining 00:10:21	

Select any category column heading or icon to return to items in that category.

Question Number ①	Question Content	② Answered	Unanswered	Review	Leave Feedback
		16	5	1	2
1	You are creating a computer version of a touch app...	✓			
2	You need to configure the dialog box option to ope...		☐	✓	
3	You work a regular 8-hour shift as a receptionist ...	✓			✓
4	Choose the second answer from each drop-down list...	✓			
5	For each statement, select True or False. Note: Yo...	✓			
6	Select Black Background Font Formats - MS Gothic ...	✓			
7	Move each source to the corresponding target...		☐		✓

Tools ▾

③ **Finish Exam**

On the **Section Summary** page you can do :

① Select any question to return to that question.

② Select the **Answered**, **Unanswered**, **Review**, or **Leave Feedback** category heading or icon to return to the set of questions in that category. You can review and modify your answers, clear the review flags, and mark questions for feedback.

  ◦ The **Unanswered** column indicates questions you did not respond to or for which you did not provide the required number of responses.

  ◦ The exam timer runs until you select **Finish Exam** in the second set of questions. You will have the opportunity to leave feedback after you submit your answers.

③ Select Finish Section or **Finish Exam** to submit your answers. **You cannot change your answers after you finish the section or exam.**
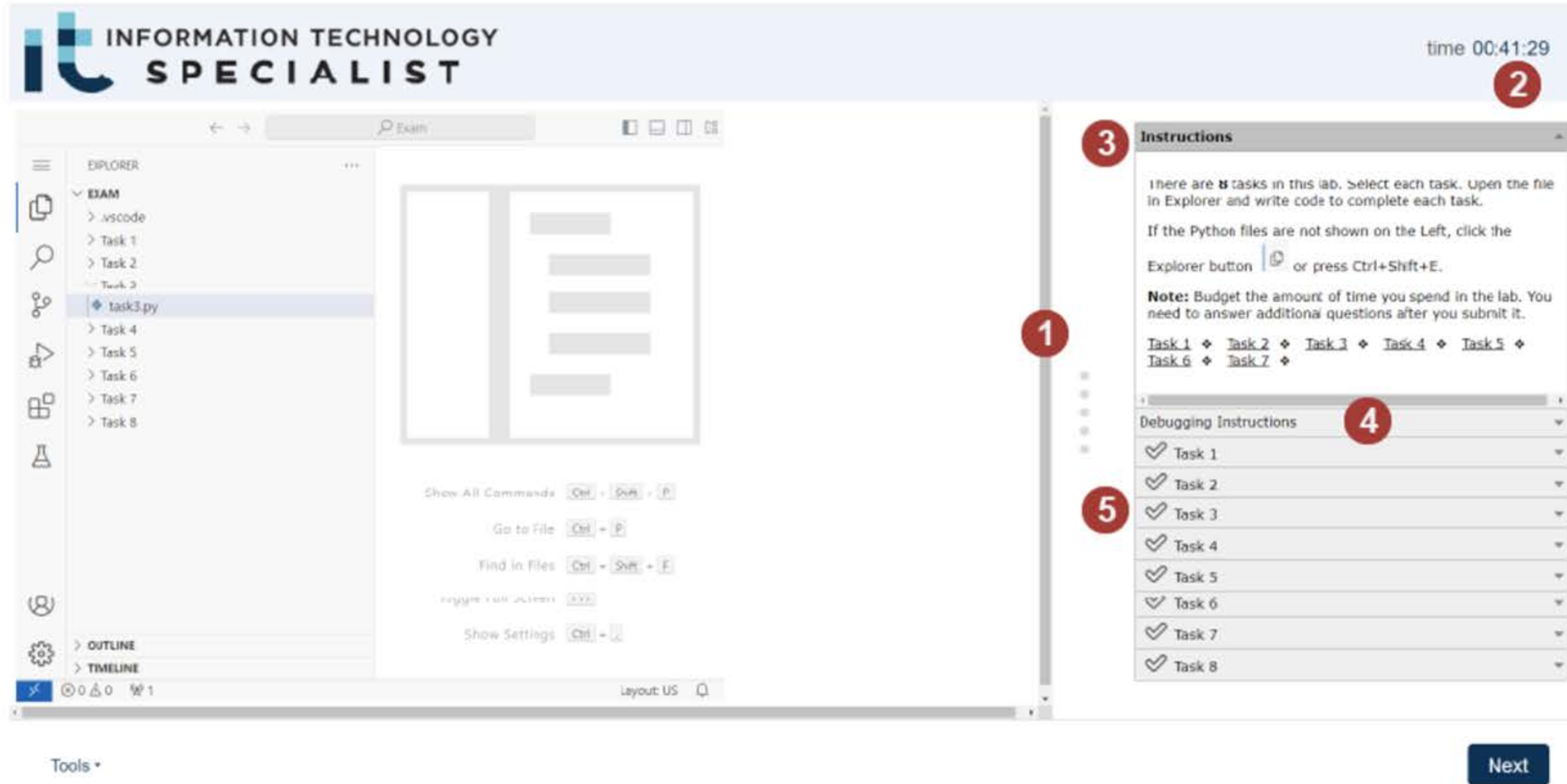
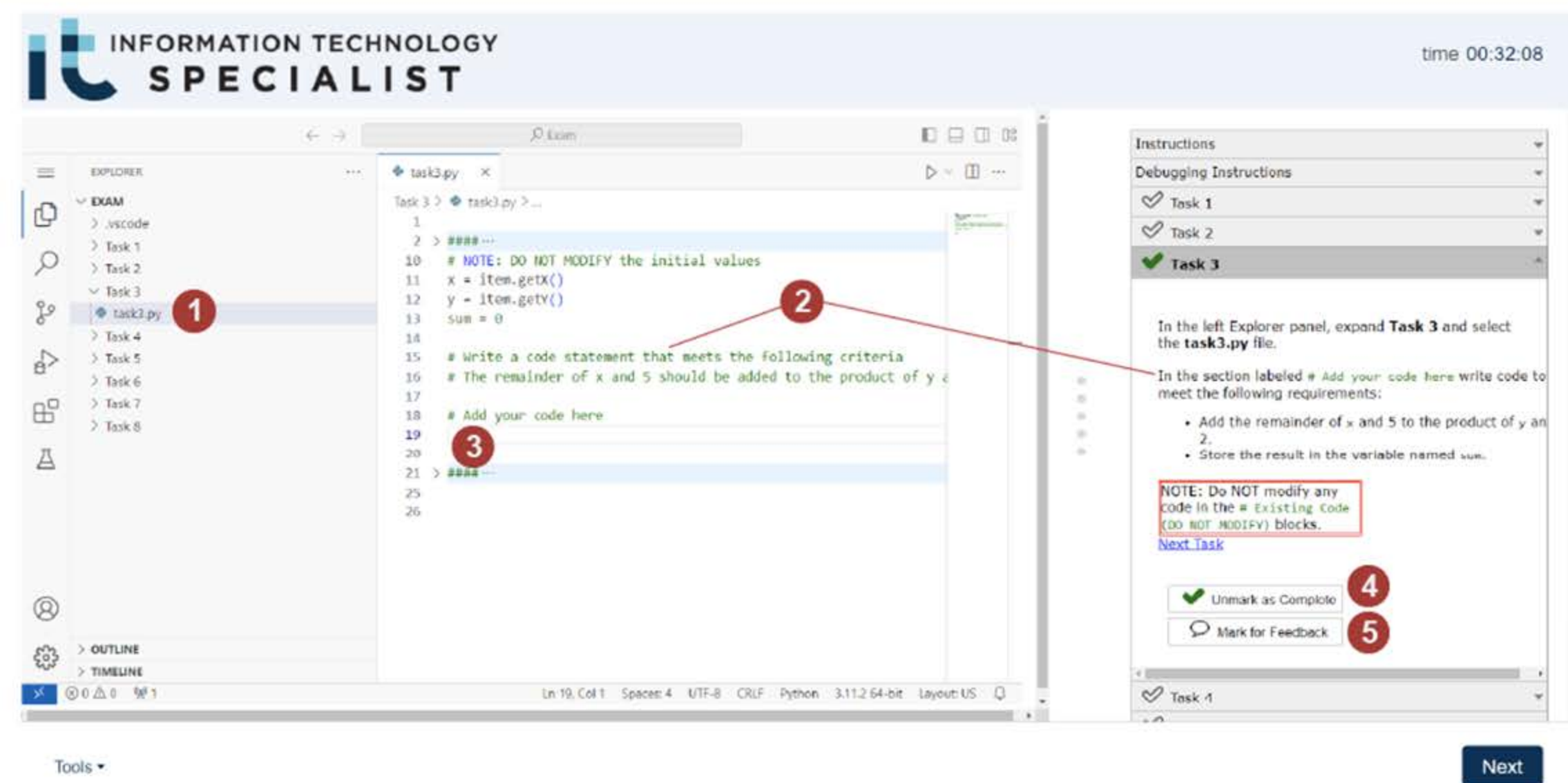Tools ▾

Skip Tutorial   Back   Next

Lab Section

The lab has VS Code in the left panel, and an accordion of tasks in the right panel.

You can interact with the panel using the following features:

1 The slider allows you to adjust the proportion of the screen that displays VS Code versus the task accordion.

2 The timer reflects the total amount of time remaining in the exam. Remember that you still have to answer a section of questions after finishing the lab, so budget the time you spend in the lab accordingly.

3 The Instructions accordion tab displays general instructions and a link to each task.

4 The Debugging Instructions accordion tab displays instructions for debugging your code.

5 You can expand each task by selecting its link in the Instructions tab, or by selecting its heading in the accordion.
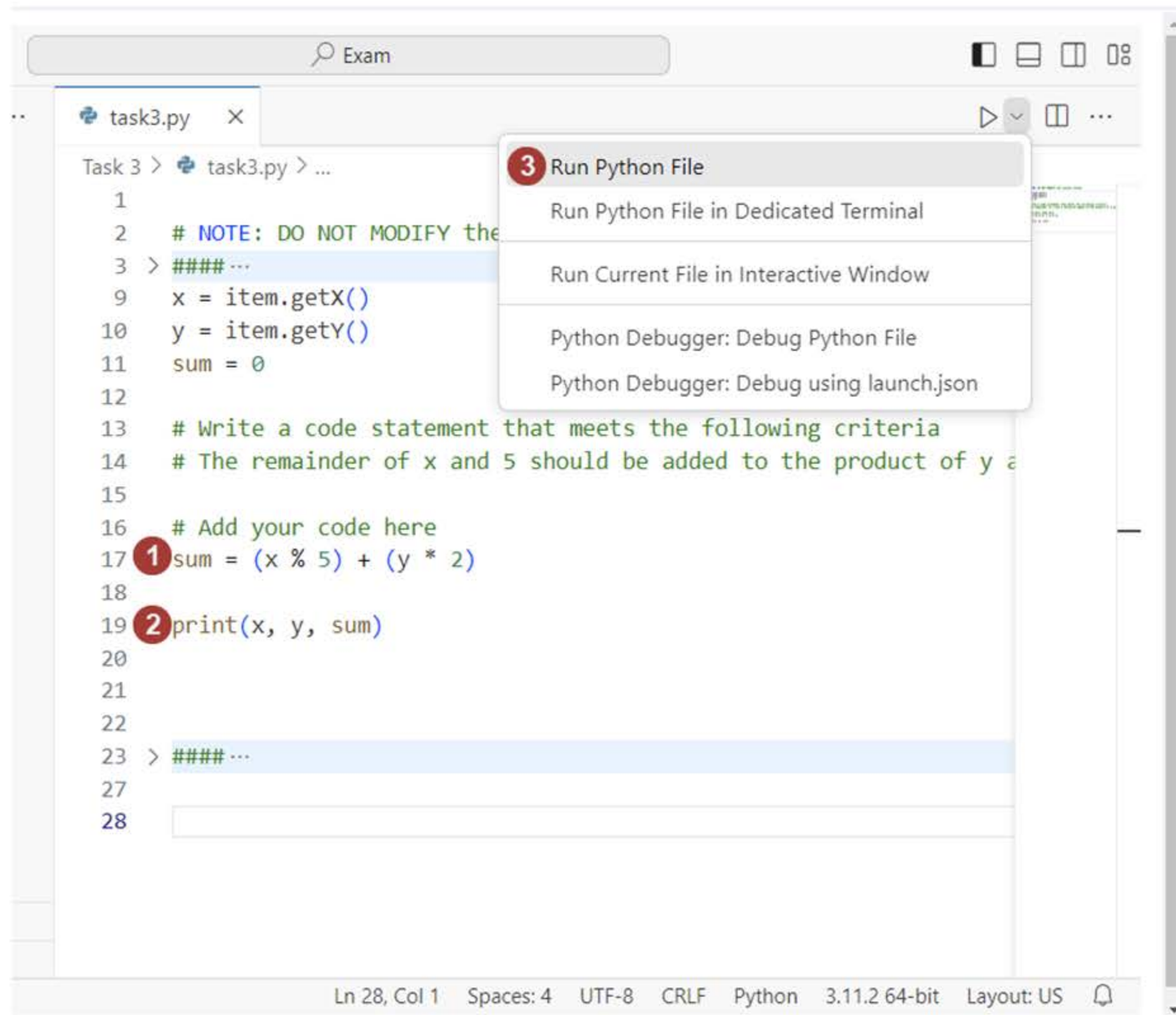
An expanded task identifies the file you need to open, and the task you need to perform by writing code. You should interact with the following elements:

1 Open the file referenced in the expanded task by selecting it in the VS Code Explorer.

2 The task instructions are included both in the expanded task and in the code file.

3 You add your code in the section identified in the expanded task. In most cases, this will be in a section labeled **# Add your code here**.

4 You can mark a task as complete after you are finished working with it. Marking a task complete changes its checkmark green. Marking a task as complete allows you to easily track which tasks you are done working on, even if you skip around.

5 You can also mark a task to leave feedback on after you complete your exam.

NOTE: It is very important that you do not modify any of the code labeled **DO NOT MODIFY.**
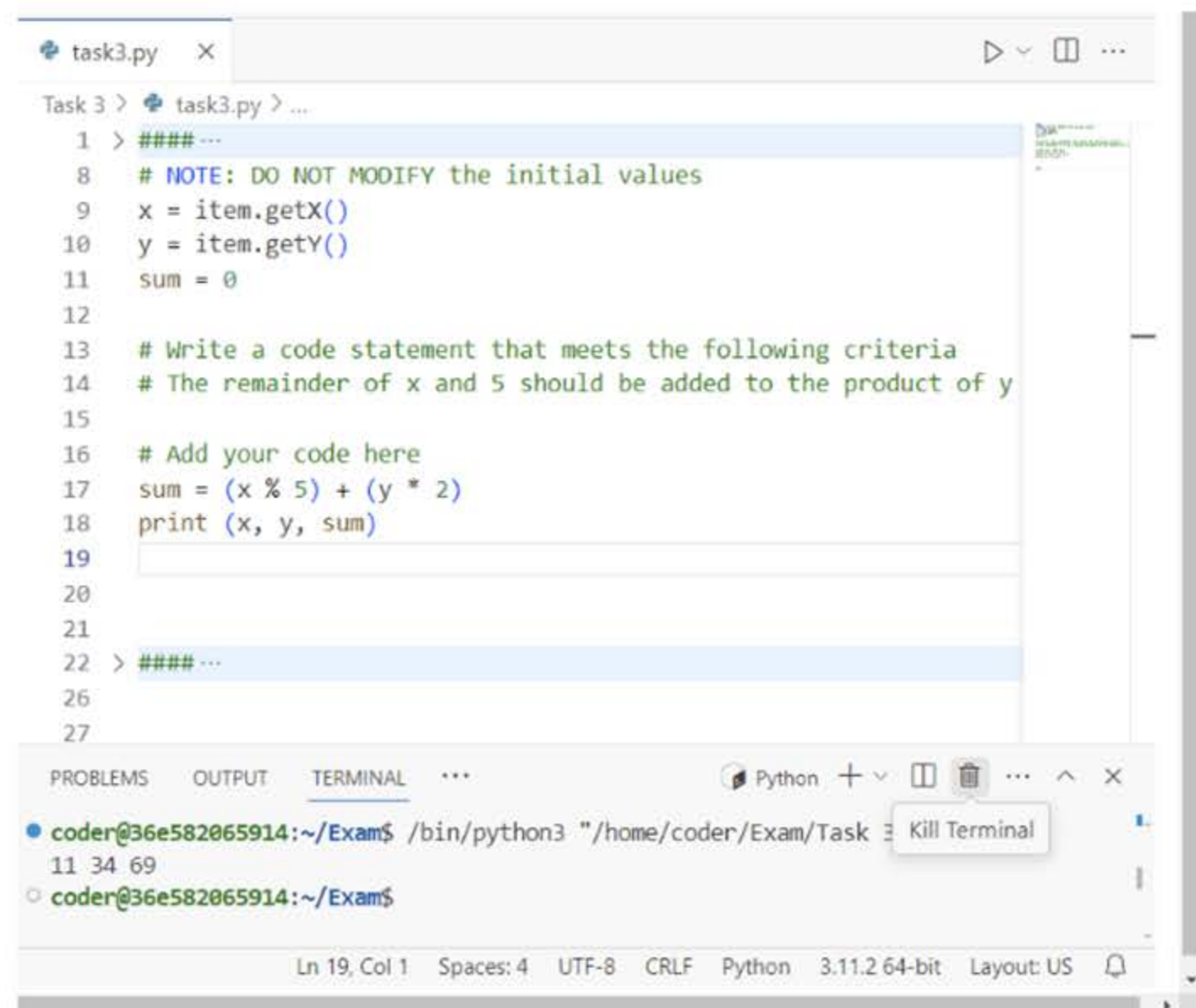
One of the great things about working in an integrated development environment like VS Code is that you can test your code before submitting your lab.

```python
# NOTE: DO NOT MODIFY the
####
x = item.getX()
y = item.getY()
sum = 0

# Write a code statement that meets the following criteria
# The remainder of x and 5 should be added to the product of y a

# Add your code here
sum = (x % 5) + (y * 2)

print(x, y, sum)


####
```

Menu options shown:
- 3 Run Python File
- Run Python File in Dedicated Terminal
- Run Current File in Interactive Window
- Python Debugger: Debug Python File
- Python Debugger: Debug using launch.json

Ln 28, Col 1   Spaces: 4   UTF-8   CRLF   Python   3.11.2 64-bit   Layout: US

To test your code, complete the following steps:

1 Write your solution code where you are instructed to write it.

2 Add print statements to output values or other debugging statements.

3 Expand the menu and choose Run Python File.

Your code will be run and any print statements will display output in the Terminal. If you want to clear the output before debugging again, click the Kill Terminal button.

```python
####
# NOTE: DO NOT MODIFY the initial values
x = item.getX()
y = item.getY()
sum = 0

# Write a code statement that meets the following criteria
# The remainder of x and 5 should be added to the product of y

# Add your code here
sum = (x % 5) + (y * 2)
print (x, y, sum)


####
```

PROBLEMS   OUTPUT   TERMINAL   ...

```
coder@36e582065914:~/Exam$ /bin/python3 "/home/coder/Exam/Task 3  Kill Terminal
11 34 69
coder@36e582065914:~/Exam$
```

Ln 19, Col 1   Spaces: 4   UTF-8   CRLF   Python   3.11.2 64-bit   Layout: US

After you have written code for every task, click the **Next** button. You will be taken to a screen that will allow you to Submit your lab, or cancel and go back to the lab. You will not be able to make any changes to your answers after you submit your lab.

Feedback and Exam Results

After you submit your answers, you can leave feedback about individual exam questions and about the exam in general. The exam team will review your feedback and use it to improve future exam experiences. You cannot change your answers during the feedback stage.

You leave feedback about individual questions and tasks in Comment mode. For each question or task you comment on, select a comment category and subcategory. If none of the category or subcategory options apply to your comment, select **Other**.

Question 2 of 45	Time Remaining **00:02:25**

Leave Feedback for Question 2

Comment Category ▾   Subcategory ▾

You are purchas

You need to sele

Which model sho

○A. iPhone X

○B. iPhone 8

○C. iPhone 7

○D. iPhone 6s

Cancel   Submit

Go to Summary   Mark for Review   **Leave Feedback**   Tools ▾   Back   Next

When you finish leaving feedback or the feedback period ends, select **Exit Exam** to display your exam score report.

This is the end of the tutorial. Select **Start Exam** to leave the tutorial and start the exam. **Your exam time begins when you start the exam.**

Tools ▾   Back   Start Exam