

[Home](#) / [Courses](#) / [ACCB4017](#) / [Assessment \(Test\)](#) / [Software Development Test \(Friday 1st April\) - BSc/HND group](#)[Hayden Thomas](#)**Started on** Friday, 1 April 2022, 11:00 AM**State** Finished**Completed on** Friday, 1 April 2022, 12:59 PM**Time taken** 1 hour 59 mins**Grade** 41.5 out of 60.0 (69%)Question **1**

Correct

Mark 1.0 out of 1.0

What type would Python infer for a variable holding the following value?

2

Answer:



The correct answer is: int

Comment:

Correct

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:01	Saved: integer	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Incorrect	0.0
4	1/04/22, 13:49	Manually graded 1 with comment: Correct Gaynor Thomas	Correct	1.0

Question **2**

Correct

Mark 1.0 out of 1.0

What type would Python infer for a variable holding the following value?

56

Answer:



The correct answer is: int

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:01	Saved: integer	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	1.0

Question **3**

Correct

Mark 1.0 out of 1.0

What type would Python infer for a variable holding the following value?

63000

Answer:



The correct answer is: int

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 12:12	Saved: integer	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	1.0

Question **4**

Correct

Mark 1.0 out of 1.0

Is the below a valid Python variable name? If not, why not?

My_Number = 24

Answer:



The correct answer is: Yes

Comment:

Correct

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:02	Saved: This is a variable name valid	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Incorrect	0.0
4	1/04/22, 13:49	Manually graded 1 with comment: Correct <u>Gaynor Thomas</u>	Correct	1.0

Question **5**

Incorrect

Mark 0.0 out of 1.0

Is the below a valid Python variable name? If not, why not?

finally = 1

Answer:



The correct answer is: No

Comment:

No, finally is a reserved word in Python

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:03	Saved: This is valid, following the alphanumeric system	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Incorrect	0.0
4	1/04/22, 13:49	Manually graded 0 with comment: No, finally is a reserved word in Python <u>Gaynor Thomas</u>	Incorrect	0.0

Question **6**

Correct

Mark 1.0 out of 1.0

Is the below a valid Python variable name? (Yes/No) If not, why not?

`_my_price = 3`

Answer:

yes, python allows underscore as part of its variable names



The correct answer is: Yes

Comment:

Correct

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:03	Saved: yes, python allows underscore as part of its variable names	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Incorrect	0.0
4	1/04/22, 13:50	Manually graded 1 with comment: Correct <u>Gaynor Thomas</u>	Correct	1.0

Question **7**

Complete

Mark 5.0 out of 5.0

What errors are present in the following code welcoming a user to a program? Write your answers in the box below. Line numbers are included for easy reference

```
1 print(Welcome to my program")
2
3 print("Please enter your name: ")
4 myName = int(input())
5
6 print("Welcome, " myName)
7
8 print("I shall say hello to you 10 times: ")
9
10 for counter in range(0, 11)
11     print("Hello")
```

Write your answers here (describe the errors found eg "Missing quotation mark on Line 4")

missing open quotation mark Line 1

variable declared as integer Line 4

missing"." at end of line 10

range counter is set to print 11 times line 10

comma is located within quotation text instead of being to the left Line 6

Write your answers here (describe the errors found eg "Missing quotation mark on Line 4")

Comment:
Good

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 11:08	Saved: Write your answers here (describe the errors found eg "Missing quotation mark on Line 4") missing open quotation mark Line 1 variable declared as integer Line 4 comma is located with in quotation text instead of being to the left Line 6	Answer saved	
3	1/04/22, 12:16	Saved: Write your answers here (describe the errors found eg "Missing quotation mark on Line 4") missing open quotation mark Line 1 variable declared as integer Line 4 missing ":" at end of line 10 range counter is set to print 11 times line 10 comma is located with in quotation text instead of being to the left Line 6	Answer saved	
4	1/04/22, 12:59	Attempt finished	Complete	
5	21/04/22, 12:34	Manually graded 5 with comment: Good Gaynor Thomas	Complete	5.0

Question **8**
Correct
Mark 2.0 out of 2.0

How many iterations does the following loop have?

```
for i in range(0, 8, 2):  
    print("Hello")
```

Answer:

4



The correct answer is: 4

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 11:09	Saved: 4	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	2.0

Question **9**

Correct

Mark 2.0 out of 2.0

How many iterations does the following loop have?

```
for i in range(1, 6):  
    print("Hello")
```

Answer:



The correct answer is: 5

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:09	Saved: 5	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	2.0

Question **10**

Incorrect

Mark 0.0 out of 3.0

What is the value of the variable *total* after the following code is executed?

```
total = 1

for x in range(0, 8, 1):
    total = total + x

    if x == 5:
        total = 0
```

Answer:

✘

The correct answer is: 13

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:10	Saved: 0	Answer saved	
3	1/04/22, 12:59	Attempt finished	Incorrect	0.0

Question **11**

Correct

Mark 0.5 out of 0.5

Given the following values $x=5$, $y=3$, $z=12$ is the statement below true or false?

$z < y * x$

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 11:11	Saved: True	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	0.5

Question **12**

Incorrect

Mark 0.0 out of 0.5

Given the following values $x=5$, $y=3$, $z=12$ is the statement below true or false?

$z > y * y$

Select one:

☐ True

☒ False ✗

The correct answer is 'True'.

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 11:11	Saved: False	Answer saved	
3	1/04/22, 12:59	Attempt finished	Incorrect	0.0

Question **13**

Correct

Mark 0.5 out of 0.5

Given the following values $x=5$, $y=3$, $z=12$ is the statement below true or false?

 $z \neq y*4$

Select one:

☐ True☒ False ✓

The correct answer is 'False'.

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:11	Saved: False	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	0.5

Question **14**

Correct

Mark 0.5 out of 0.5

Given the following values $x=5$, $y=3$, $z=12$ is the statement below true or false?

 $z = y*4$

Select one:

☒ True ✓☐ False

The correct answer is 'True'.

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:11	Saved: True	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	0.5

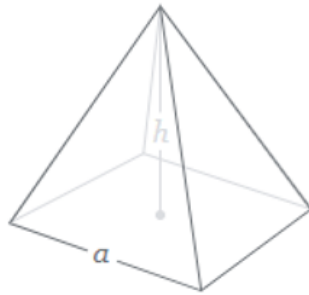
Question **15**

Complete

Mark 6.0 out of 10.0

The volume of a square-based pyramid is calculated using the formula:

$$V = a^2 \frac{h}{3}$$



Task:

Write a program to calculate the volume using the above formula.

Allow the user to enter the measurements for *a* and *h*. Both *a* and *h* should be positive numbers.

Print the volume on the screen to 2 decimal places

Write your program using Python/PyCharm (or any other Python editor you may favour)

Copy and paste your code into the box below for submission.

```
a = float(input("Please enter base"))
h = float(input("Please enter hight"))

volume= (1/3) * (a**2) * h

print("Volume is", round(volume, 2))
```

Comment:

OK - but you need to validate so that a and h are entered as positive numbers

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 12:30	Saved: a = float(input("Please enter base")) h = float(input("Please enter hight")) volume= (1/3) * (a**2) * h print("Volume is", round(volume, 2))	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Complete	

Step	Time	Action	State	Marks
4	21/04/22, 15:31	Manually graded 6 with comment: OK - but you need to validate so that a and h are entered as positive numbers Gaynor Thomas	Complete	6.0

Question **16**

Complete

Mark 13.0 out of 15.0

Task:**Declare an empty list in your program to hold some measurements, for example:**`measures = []`

- 1. Prompt the user to enter five rainfall measurements into a list (in millimetres). (eg 3.3, 5.0, 2.6 etc)**
- 2. Print each of the entered values on the screen using a loop.**
- 3. Calculate the total rainfall (ie add all five measurements)**

Print the total on the screen.

Sample output:

```
Enter your next measurement:
3.3
Enter your next measurement:
5.0
Enter your next measurement:
2.6
Enter your next measurement:
3.4
Enter your next measurement:
12.2
You entered: 3.3 5.0 2.6 3.4 12.2

The total rainfall is 26.5
```

*Write your program using Python/PyCharm (or any other Python editor you may favour)**Copy and paste your code into the box below for submission.*

```
measures = []

for i in range(5):
    number = float(input("Enter your next measurement: \n"))
    measures.append(number)
print("you entered:",(measures))
print("the total rainfall is", sum(measures))
```

Comment:

Good. You might also consider validation so that rainfall isn't negative (implicit in the question)

Response history

Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 12:37	Saved: measures = [] for i in range(5): num = float(input("Enter your next measurement: \n")) measures.append(num) print("you entered:",(measures)) print("the total rainfall is", sum(measures))	Answer saved	
<u>3</u>	1/04/22, 12:38	Saved: measures = [] for i in range(5): number = float(input("Enter your next measurement: \n")) measures.append(number) print("you entered:",(measures)) print("the total rainfall is", sum(measures))	Answer saved	

Step	Time	Action	State	Marks
4	1/04/22, 12:59	Attempt finished	Complete	
5	21/04/22, 16:14	Manually graded 13 with comment: Good. You might also consider validation so that rainfall isn't negative (implicit in the question) Gaynor Thomas	Complete	13.0

Question **17**

Complete

Mark 7.0 out of 15.0

Task: Write a function called *entername()* to allow the user to enter the names of three conferences delegates in turn. The function should be called 3 times, once for each of the conference delegates, and the name entered returned to the main program.

Print the names entered from the main program, then calculate the total bill for attending the conference (£65 per person) and print it on the screen

Sample output:

Enter name of next delegate:

Gaynor Thomas

Enter name of next delegate:

Beverley Holland

Enter name of next delegate:

James Williams

The delegates who attended today were: Gaynor Thomas Beverley Holland James Williams

Total due is: £ 195

Write your program using Python/PyCharm (or any other Python editor you may favour)

Copy and paste your code into the box below for submission.

```
def entername(thename):  
    print("the delegates who attened today were:",name , " ", name1, " ", name 2)  
    pay = pay +65  
    name = str(input("Enter delegate name:"))  
    entername()  
    name1 = str(input("Enter delegate name:"))  
    entername()  
    name2 = str(input("Enter delegate name:"))  
    entername()  
  
order_output(name, name1, name2)
```

Comment:

You've got things a bit backwards here. The function is meant to allow the user to enter a number and return it back to main. You've done it the other way around - entered 3 numbers in main and passed them to the function. Even then, you haven't used the parameter and used name, name1 and name2 as global variables which is not ideal. I don't think you've actually printed out the full cost?

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 12:59	Saved: def entername(thename): print("the delegates who attened today were:",name , " ", name1, " ", name 2) pay = pay +65 name = str(input("Enter delegate name:")) entername() name1 = str(input("Enter delegate name:")) entername() name2 = str(input("Enter delegate name:")) entername() order_output(name, name1, name2)	Answer saved	

Step	Time	Action	State	Marks
3	1/04/22, 12:59	Attempt finished	Complete	
4	21/04/22, 17:07	Manually graded 7 with comment: You've got things a bit backwards here. The function is meant to allow the user to enter a number and return it back to main. You've done it the other way around - entered 3 numbers in main and ... Gaynor Thomas	Complete	7.0