

[Home](#) / [Courses](#) / [ACCB4017](#) / [Assessment \(Test\)](#) / [Software Development Test \(Friday 1st April\) - BSc/HND group](#)[Rhys Davies](#)**Started on** Friday, 1 April 2022, 11:00 AM**State** Finished**Completed on** Friday, 1 April 2022, 12:59 PM**Time taken** 1 hour 58 mins**Grade** 38.0 out of 60.0 (63%)Question **1**

Correct

Mark 1.0 out of 1.0

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

-6.23

Answer:

Float



The correct answer is: float

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: Float	Answer saved	
3	1/04/22, 12:59	Attempt finished	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?

Christopher

Answer:



The correct answer is: string

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, 11:05	Saved: String	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?

-1.23

Answer:



The correct answer is: float

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, 11:06	Saved: Float	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?

finally = 1

Answer:



The correct answer is: No

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, 11:11	Saved: finally isnt a valid variable because its a reserved word	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Incorrect	0.0
4	1/04/22, 13:37	Manually graded 1 with comment: Correct <u>Gaynor Thomas</u>	Correct	1.0

Question **5**

Correct

Mark 1.0 out of 1.0

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

My_Number = 24

Answer:

its a valid variable because it has an underscore and its not a reserved v

✖

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, 11:12	Saved: its a valid variable because it has an underscore and its not a reserved word	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Incorrect	0.0
4	1/04/22, 13:37	Manually graded 1 with comment: Correct <u>Gaynor Thomas</u>	Correct	1.0

Question **6**

Correct

Mark 1.0 out of 1.0

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

myPrice = 4.567

Answer:

its valid because its not a reserved word and it doesn't have any spaces



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, 11:12	Saved: its valid because its not a reserved word and it doesn't have any spaces	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Incorrect	0.0
4	1/04/22, 13:37	Manually graded 1 with comment: Correct <u>Gaynor Thomas</u>	Correct	1.0

Question **7**

Complete

Mark 4.0 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")
```

```
print("Welcome to my program")

print("Please enter your name: ")
myName = input()

print("Welcome, ", myName)
print("I shall say hello to you 10 times: ")

for counter in range(0, 10):
    print("Hello")
```

in line 1 the print command is missing a quotation mark

in line 4 int isn't meant to be there so it should be just myName=input()

in line 10 the print command is missing a colon at the end

in line 10 the counter should be 0, 10 because the text says it counts up to 10 but actually counts up to 11

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

Comment:

Good. Also missing comma on line 6

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 11:22	Saved: PRINT("WELCOME TO MY PROGRAM") PRINT("PLEASE ENTER YOUR NAME: ") MYNAME = INPUT() PRINT("WELCOME, ", MYNAME) PRINT("I SHALL SAY HELLO TO YOU 10 TIMES: ") FOR COUNTER IN RANGE(0, 10): PRINT("HELLO") in line 1 the print command is missing a quotation mark in line 4 int isn't meant to be there so it should be just myName=input() in line 10 the print command is missing a colon at the end in line 10 the counter should be 0, 10 because the text says it counts up to 10 but actually counts up to 11	Answer saved	
3	1/04/22, 12:59	Attempt finished	Complete	
4	21/04/22, 12:06	Manually graded 4 with comment: Good. Also missing comma on line 6 Gaynor Thomas	Complete	4.0

Question 8

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
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 11:23	Saved: 5	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(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, 11:23	Saved: 4	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, 10, 1):
    total = total + x

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

Answer:

✘

The correct answer is: 30

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, 11:27	Saved: 6	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
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:29	Saved: True	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	0.5

Question **12**

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?

$x > z/y$

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, 11:30	Saved: True	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	0.5

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?

 $x==y$

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, 11:30	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?

 $z > y*y$

Select one:

☒ True ✓☐ False

The correct answer is 'True'.

Response history

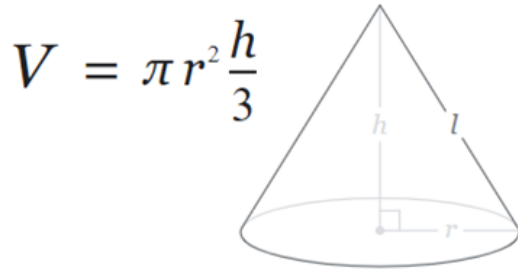
Step	Time	Action	State	Marks
<u>1</u>	1/04/22, 11:00	Started	Not yet answered	
<u>2</u>	1/04/22, 11:31	Saved: True	Answer saved	
3	1/04/22, 12:59	Attempt finished	Correct	0.5

Question **15**

Complete

Mark 6.0 out of 10.0

The volume of a cone is calculated using the formula:



Task:

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

Allow the user to enter the measurements for r and h . Both r and h should be positive numbers. You can set pi to 3.142

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.

PI = 3.142

```
r = int(input("Please enter the radius: "))  
print()  
h = int(input("Please enter the height: "))
```

Volume = (PI * r**2 * h/3)

rounded_volume = round(Volume,2)

print(rounded_volume)

Comment:

float would be a better type here rather than int.

You have not validated so that base and height can only be 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, 11:43	Saved: PI = 3.142 r = int(input("Please enter the radius: ")) print() h = int(input("Please enter the height: ")) Volume = (PI * r**2 * h/3) rounded_volume = round(Volume,2) print(rounded_volume)	Answer saved	
<u>3</u>	1/04/22, 12:59	Attempt finished	Complete	

Step	Time	Action	State	Marks
4	21/04/22, 15:10	Manually graded 6 with comment: float would be a better type here rather than int. You have not validated so that base and height can only be positive numbers Gaynor Thomas	Complete	6.0

Question **16**

Complete

Mark 8.0 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 = []

m1 = float(input("Enter your first measurement"))
measures.append(m1)

m2 = float(input("Enter your next measurement"))
measures.append(m2)

m3 = float(input("Enter your next measurement"))
measures.append(m3)

m4 = float(input("Enter your next measurement"))
measures.append(m4)

m5 = float(input("Enter your next measurement"))
measures.append(m5)

print("You entered",m1,m2,m3,m4,m5)
print()
print("The total rainfall is", m1+m2+m3+m4+m5)
```

Comment:

You have used the list successfully, but there are no loops used.

There's no real point in using a list if you're going to have 5 variables as well.

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

Have another read over using loops with lists :)

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	

Step	Time	Action	State	Marks
2	1/04/22, 12:00	Saved: measures = [] m1 = float(input("Enter your first measurement")) measures.append(m1) m2 = float(input("Enter your next measurement")) measures.append(m2) m3 = float(input("Enter your next measurement")) measures.append(m3) m4 = float(input("Enter your next measurement")) measures.append(m4) m5 = float(input("Enter your next measurement")) measures.append(m5) print("You entered",m1,m2,m3,m4,m5) print() print("The total rainfall is", m1+m2+m3+m4+m5)	Answer saved	
3	1/04/22, 12:59	Attempt finished	Complete	
4	21/04/22, 15:55	Manually graded 8 with comment: You have used the list successfully, but there are no loops used. There's no real point in using a list if you're going to have 5 variables as well. You might also consider validation so that ... Gaynor Thomas	Complete	8.0

Question **17**

Complete

Mark 8.0 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.

◀ Software Development Test (Friday 1st April) - BSc/HND group: Attempt review

Print the names entered from the main program, then calculate the total bill for attending the

Jump to...

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.

Software Development Test - for Joe ▶

```
def entername():
    cpp = 195
    name1 = input("Please enter the next delegate: ")
    name2 = input("Please enter the next delegate: ")
    name3 = input("Please enter the next delegate: ")
    names = [name1, name2, name3]
    Total1 = (cpp * len(names))
    print("The delegates who attended today were: ",name1 ,name2 ,name3 )
    print("Total due is: £",cpp)

entername()
```

Comment:

You need to re-use the function 3 times - otherwise, there's no point having a function. As you haven't done this, you haven't returned the names back to the main program either.

Response history

Step	Time	Action	State	Marks
1	1/04/22, 11:00	Started	Not yet answered	
2	1/04/22, 12:58	Saved: def entername(): cpp = 195 name1 = input("Please enter the next delegate: ") name2 = input("Please enter the next delegate: ") name3 = input("Please enter the next delegate: ") names = [name1, name2, name3] Total1 = (cpp * len(names)) print("The delegates who attended today were: ",name1 ,name2 ,name3) print("Total due is: £",cpp) entername()	Answer saved	

Step	Time	Action	State	Marks
3	1/04/22, 12:59	Attempt finished	Complete	
4	21/04/22, 16:54	Manually graded 8 with comment: You need to re-use the function 3 times - otherwise, there's no point having a function. As you haven't done this, you haven't returned the names back to the main program either. Gaynor Thomas	Complete	8.0