Week 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2024-08-07, 23:59 IST.

Assignment submitted on 2024-07-31, 09:49 IST

1) **Statement :** If a variable is assigned multiple times, the latest value is not stored in the variable ***1 point***

- False, the variable stores all values it was assigned
- False, the variable stores the value from the latest assignment.
- True, the variable stores the value from the second-last assignment.
- True, the variable stores value from the initial assignment

Yes, the answer is correct.
Score: 1

Accepted Answers:
False, the variable stores the value from the latest assignment.

2) Which of the following code blocks print - ”Hello Ram Lakshman and Hanuman !” ? ***1 point***

```
name1 = "Ram"
name2 = "Lakshman"
name3 = "Hanuman"
print("Hello",name1,name2, "and",name3,"!")
```

```
name1 = "Ram"
name2 = "Lakshman"
name3 = "Hanuman"
print("Hello",name1,name1, "and",name3,"!")
```

```
print("Hello Ram Lakshman and Hanuman !")
```

```
name1 = "Ram"
name2 = "Lakshman"
name3 = "Hanuman"
print("Hello Ram", name1, "and",name3,"!")
```

Yes, the answer is correct.
Score: 1

Accepted Answers:

```
name1 = "Ram"
name2 = "Lakshman"
name3 = "Hanuman"
print("Hello",name1,name2, "and",name3,"!")
```

```
print("Hello Ram Lakshman and Hanuman !")
```

3) What aren't the correct ways to inform python that input is an integer ? ***1 point***

- [x] in(input())
- [x] float(input())
- [ ] int(input())
- [ ] a = input()
  a = int(a)

Yes, the answer is correct.
Score: 1

Accepted Answers:
in(input())
float(input())

4) The following program outputs 722 - ***1 point***

```
a = 7
result = 1
for i in range(a):
    if(i > 0):
        result = result * i
print(result+2)
```

For what value of **a** does the code output 8 ?

- ( ) 2
- ( ) 1
- (•) 4
- ( ) 6

Yes, the answer is correct.
Score: 1

Accepted Answers:
4

5) What does previous question calculate ? ***1 point***

- Calculates the factorial of **a**.
- Calculates the factorial of **a** and adds 2.
- Calculates the a multiples of **a** starting from **1** and adds **2.**
- Calculates the factorial of **a-1** and adds **2**.

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Calculates the factorial of **a-1** and adds **2**.*

6) Which loop is used to perform a set of repetitive tasks based on condition in Python? ***1 point***

- **while** loop
- **for** loop
- **do-while** loop
- **while-range** loop

Yes, the answer is correct.
Score: 1
Accepted Answers:
***while** loop*

7) What happens when the condition inside the **if** and **while** evaluate to false ? ***1 point***

- Python interpreter ignores the **if/while** blocks, and halts the program.
- Python interpreter ignores the **if/while** blocks, and proceeds the program from the lines after the **if/while** block.
- Python interpreter executes the **if/while** blocks, and rest of the program.
- Python interpreter executes the **if/while,** and the programs runs in an infinite loop.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*Python interpreter ignores the **if/while** blocks, and proceeds the program from the lines after the **if/while** block.*

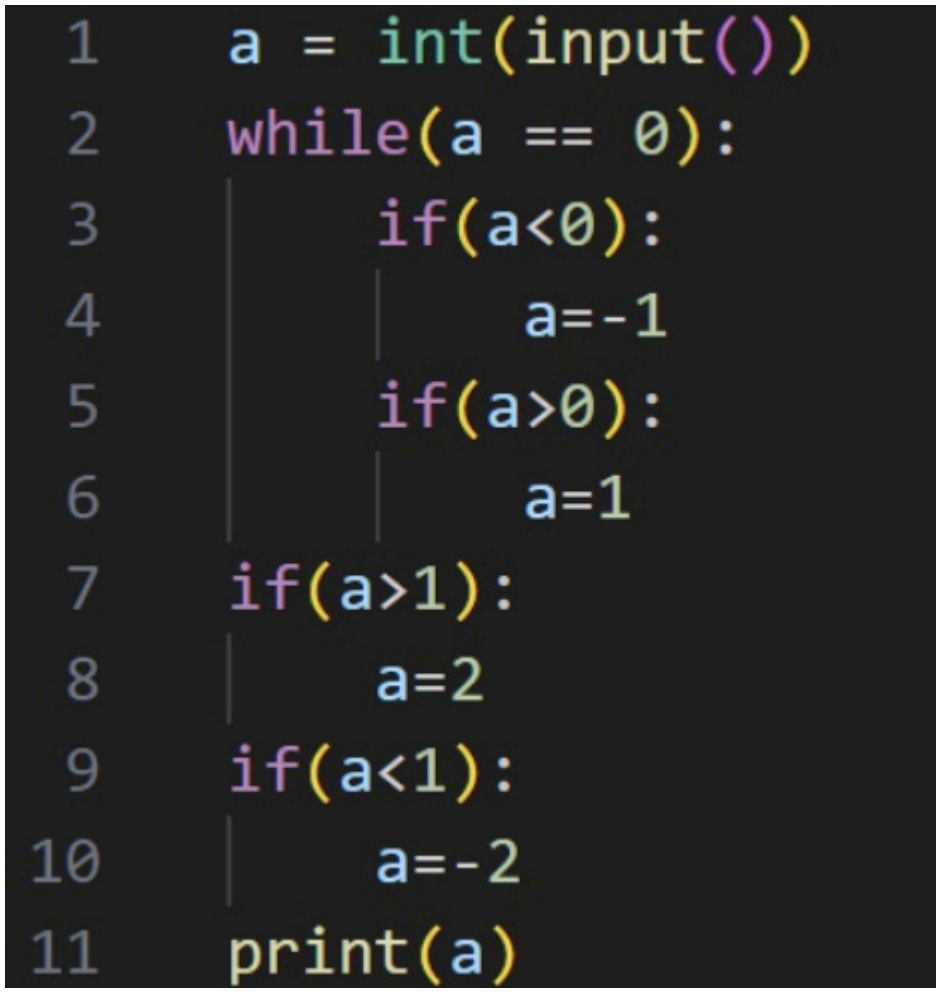
8) The following program might/might not have an infinite loop. Does the program have infinite loop ? ***1 point***

Text Transcripts ()

Download Videos ()

Books ()

Problem Solving Session - July 2024 ()



```
1   a = int(input())
2   while(a == 0):
3       if(a<0):
4           a=-1
5       if(a>0):
6           a=1
7   if(a>1):
8       a=2
9   if(a<1):
10      a=-2
11  print(a)
```

- ○ No, the program doesn't have infinite loop.
- ◉ Yes, it can be prevented by updating the value of **a** before the **if** block at line 3
- ○ Yes, it can be prevented by removing both the **if** blocks inside the while loop.
- ○ Yes, but it cannot be prevented

Yes, the answer is correct.
Score: 1

Accepted Answers:
*Yes, it can be prevented by updating the value of **a** before the **if** block at line 3*

9) For which of the following values of **name** and **age** variables does the following code print "You are lucky"? ***1 point***

```
name = input("Enter your name: ")
age = int(input("Enter your age: "))
flag = "False"
if(age >= 18):
    flag = "True"
else:
    flag = "False"
counter = 0
for i in name:
    if(i == "a"):
        counter += 1
if(flag == "True"):
    if(counter > 2):
        print("You are lucky")
    else:
        print("You are not lucky")
```

- aryan, 20
- arjun, 19
- aakash, 17
- aatreya, 18

Yes, the answer is correct.
Score: 1

Accepted Answers:
aatreya, 18

10) For which of the options among the previous question, the program doesn't print anything. ***1 point***

- aryan, 20
- arjun, 19
- aakash, 17
- aatreya, 18

Yes, the answer is correct.
Score: 1

Accepted Answers:
aakash, 17