Thank you for taking the Week 3: Assignment 3.

Week 3: Assignment 3

Your last recorded submission was on 2024-08-13, 22:18 IST Due date: 2024-08-14, 23:59 IST.

1) Which of the following is/are **true** statement(s)? ***1 point***

- [x] Lists are used to store multiple values.
- [ ] One can access element in list by using non-numeric indices.
- [x] Iterating over lists is possible in Python.
- [ ] We need to specify required size of list while creating a new list variable.

2) In the below code -

```
n= ?
a = []
for i in range(n):
    l1 = []
    p = 0
    for j in range(i):
        l1.append(j)
    for k in l1:
        p+=1
    a.append(p)
k=0
for l in a:
    k+=l
print(k)
```

For what value of **n** does the program print **21** ?

7

1 point

3) From the previous question, for what values of **n** is the number **7** appended to list **a.** ***1 point***

- [ ] 7
- [ ] 6
- [x] 8
- [x] 9

4) What does the following code perform ? ***1 point***

```
def mystery(container):
    result = []
    for i in range(len(container)):
        if i % 2 == 0:
            result.append(container[i] * 2)
        else:
            result.append(container[i] + 3)
    return result
```

- ( ) It converts any input list into a new list which is filled with some alternative even and odd numbers.
- (•) It converts any input list into a new list such that at even indices, the value is a multiple of an even number and at odd indices, the value is either odd or even number.
- ( ) It converts any input list into a new list such that at even indices, the value is multiple of 2 and at odd indices, the value is multiple of 3.
- ( ) It converts any input list into a new list, which follows no pattern.

5) From the previous question, if the option - ***1 point***

It converts any input list into a new list which is filled with some alternative even and odd numbers.

is incorrect, Can you make changes to code such that this option is true ?

- ( ) No, it is not possible to make such changes.
- ( ) No, the option is already correct.
- (•) Yes, we can make changes.

6) If **file.txt** exists, Does the code successfully run ? ***1 point***

```
with open("file.txt", "w") as f:
    data = f.read()
    print(data)
```

- ( ) Yes
- (•) No

7) Which of the following are examples of Social Computing ? ***1 point***

- [x] StackOverflow
- [x] Wikipedia
- [x] Quora

☐ None

8) What does the following code print for **n = 3**? ***1 point***

```
n = ?
k = 0
a = []
b = 0
while (n != 0):
    k = k + (n % 10)
    a.append(n % 10)
    n = n//10
a.sort()
for i in a:
    b = b + i
if(b == k):
    print("WE KNOW THE WISDOM OF SERIES")
else:
    print("WE ARE YET TO KNOW MANY THINGS")
```

◉ WE KNOW THE WISDOM OF SERIES
○ WE ARE YET TO KNOW MANY THINGS

9) From the previous question, is the variable **n** or **a.sort()** responsible for printing of either of the two possible sentences ? ***1 point***

☑ No, it is not dependent on variable n, the code will never print ”WE ARE YET TO KNOW MANY THINGS”.
☐ Yes on a.sort() only, but the code will never print ”WE ARE YET TO KNOW MANY THINGS”.
☐ Yes on both, the code may print both sentences.
☑ No, it is not dependent on a.sort(), the code will never print ”WE ARE YET TO KNOW MANY THINGS”.

10) What does the code in question 8, calculate ?
Can you say what the values of k and b are if n = 10294343763482 x 10^{2309}.
If values of k and b are different, enter 0, else enter value of k

56

1 point

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers

Assessment submitted.
X

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