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Week 3 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-15, 23:59 IST.

Assignment submitted on 2023-02-12, 12:40 IST

1) _____ is the method to insert an item into a specified position in a list. *1 point*

- Push
- Write
- (•) Insert
- All of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Insert

2) Which method returns the number of occurrences of an element in a list. *1 point*

- Number of
- Total
- (•) Count
- Length

Yes, the answer is correct.
Score: 1
Accepted Answers:
Count

3) The function random.randint(1,100) in python generates. *1 point*

- (•) A random integer between 1 to 100 with 1 and 100 both inclusive
- A random integer between 1 to 100 with 1 and 100 both exclusive
- A random integer between 1 to 100 with only 100 inclusive
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
A random integer between 1 to 100 with 1 and 100 both inclusive

4) The method open("file1.txt", r+) opens the file file1.txt in _____. *1 point*

- Read only mode
- Write only mode
- (•) Read Write mode
- None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Read Write mode

5) Consider the list L= [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]. What will be the output of the statement L [3:6]? *1 point*

- (•) [2, 3, 5]
- [0, 1, 1]
- [1, 2, 3]
- none

Yes, the answer is correct.
Score: 1
Accepted Answers:
[2, 3, 5]

6) What is the output of this code? *1 point*

```
a,b=1,0
a=a^b
b=a^b
a=a^b
print(a)
```

- (•) 0
- 1
- 2
- This code will raise a runtime error

Yes, the answer is correct.
Score: 1
Accepted Answers:
0

7) What is the output of the following code?

```
def foo(l):
```

```
    a = l[0]
    for i in l:
        if i < a:
            a = i
    return a

print(foo([2, 3, 5, 1, 7, 6]))
```

1

Yes, the answer is correct.
Score: 1
Accepted Answers:
(Type: Numeric) 1

1 point

8) What is the output of the following code? *1 point*

```
def bar(string):
    left = 0
    right = len(string) - 1
    while(left < right):
            if(string[left] != string[right]):
                    return False
            left += 1
            right -= 1
    return True

print(bar("telugu"))
print(bar("malayalam"))
```

- (•) False True
- ( ) True False
- ( ) True True
- ( ) False False

Yes, the answer is correct.
Score: 1
Accepted Answers:
False True

9) Explain what the output will be when the code given below is executed. *1 point*

```
def func(list1):
  while (len(list1) > 2):
    k=list1[0]
    for i in list1:
      if k<i:
        k=i
    list1.remove(k)

    j=list1[0]
    for i in list1:
      if j>i:
        j=i
    list1.remove(j)
  return list1

list2=func([1,4,3,6,5,3,7,8,9,4])
#sum is a function which returns the sum of all of the values of all
the elements of a list
print(sum(list2)/len(list2))
```

- ( ) The program throws an error
- ( ) 5
- ( ) 5.5
- (•) 4.5

Yes, the answer is correct.
Score: 1
Accepted Answers:
4.5

10) Which among the following statements is True with respect to the code given below? *1 point*

```
count = 0
for i in range(10):
    for j in range(5):
        count += i *j
print(count)
```

- ( ) count=50
- ( ) The following code throws up an error.
- ( ) count=550
- (•) count=450

Yes, the answer is correct.
Score: 1
Accepted Answers:
count=450