

MAHARAJA AGRASEN MODEL SCHOOL, PITAMPURA, DELHI-34.

CLASS XI (2021-22)

SUBJECT – COMPUTER SCIENCE

Revision Assignment (List & Tuples)

Programming

1. Assuming that num is a list of integers, write code displaying the list. The code should then replace each element having even value with its square and each element having odd value with its cube, and then display the changed list. (2)

2. Write a program to create a list C by adding individual elements of two lists A and B of equal size. (3)

3. Following are the statements for creating lists, find the errors in the following statements and rewrite the same after correcting them. (1)

a. L1=1,6,a,8

b. N=[apple, banana, orange]

4. Write the most appropriate list method to perform the following tasks: (2)

(a) Delete a given element from the list

(b) Add single element at the end of the list.

4. WAP that returns the largest even number in the list of integers. If there is no even number in input, print "No even number".

5. Write a python program that inputs a list of numbers and shifts all the zero's to right and all non-zero numbers to left of the list.

Theory Based Questions

1. How you can create an empty Tuples and add elements to it? (2)

2. If a is (3,4,5)

(2)

a. What is the difference between $a*2$ and (a,a) ?

b. Is $a*2$ equivalent to $a+a$?

Additional

What is the output of the following? <pre>mylist = ['quest', 'forknowledge'] for i in mylist: print(i.upper()) print(mylist)</pre> 1. ['QUEST', 'FORKNOWLEDGE']. 2. ['quest', 'forknowledge']. 3. [None, None]. 4. Unexpected	<pre>['quest', 'forknowledge']</pre> Explanation: The function <i>upper()</i> does not modify a string in place, it returns a new string which isn't being stored anywhere.
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What is the output of the following? <pre> mylist = ['proud', 'indian'] for i in mylist: mylist.append(i.upper()) print(mylist) </pre> 1. ['PROUD', 'INDIAN']. 2. ['proud', 'indian', 'PROUD', 'INDIAN']. 3. [None, None]. 4. None of these	None of these Explanation: The loop does not terminate as new elements are being added to the list in each iteration.
What is the output of the following? <pre> i = 1 while True: if i % 7 == 0: break print(i) i += 1 </pre> 1. 1 2 3 4 5 6. 2. 1 2 3 4 5 6 7. 3. error. 4. None of these	1 2 3 4 5 6 Explanation: The loop will terminate when i becomes equal to 7.

What is the output of the following?

```
False = False
```

```
while True:
```

```
    print(True)
```

```
    break
```

1. False.
2. True.
3. Error.
4. None of these

Error

Explanation: `SyntaxError`, **`True`** is a keyword so its value cannot be changed.

5. What is the output of the following?

```
1
```

```
while True:
```

```
    if i % 3 == 0:
```

```
        break
```

```
    print(i)
```

```
    i += 1
```

1. 1 2 3.
2. 1 2.
3. Syntax Error.
4. None of these

Syntax Error

Explanation: `SyntaxError`, there shouldn't be a space between `+` and `=` in `+=`.

