Developer Student Clubs

Al-Azhar University

DSC On Track

✓ 1. try to type following equation and Give it a name called " Equation " After Typing this pass a value 10 for X and Show the Result of this " Equation " * 2/2

$$\frac{X^3 + 2X - 0.5x^{-3}}{X^2 + 2 * 10^{-5}}$$

- (●) 10.1999 ✓
- ( ) 15
- ( ) 8

✓ 2. Write a function that accepts a string and calculates the length of string . pass this string : 'Dsc machine learning on Track' * 2/2

- ( ) 30
- ( ) 25
- ( ) error
- (●) 29 ✓

✓ 3. What is the output of the following program? * 2/2

```
names = ['ali','mohamed' ,'mahmoud', 'ahmed']
print(names[-2] )
```

- ○ mohamed
- ◉ mahmoud ✓
- ○ ahmed
- ○ error

✓ 4. What is the output of the following program? * 2/2

```
print(3**4)
```

- ○ 8
- ◉ 81 ✓
- ○ 16
- ○ error

✓ 5. Get the characters (llo). * 2/2

```
txt = "Hello World"
```

```
print(txt[2:])
```

○ 1

```
print(txt[2:4])
```

○ 2

```
print(txt[2:5])
```

◉ 3 ✓

```
print(txt[:5])
```

○ 4

✓ 6. What will be the output of the following program ? * 2/2

```
car ={"brand": "Ford","model": "Mustang", "year": 1964}
print(car.pop("model"))
```

- ○ Ford
- ○ model
- ◉ Mustang ✓
- ○ 1964

✓ 7. To grab item0 and the characters are small. * 3/3

```
my_dict = {'key1':[1,2,3],'key2':['Item0','Item1','Item2'] }
```

```
print(my_dict['key2'][1].lower())
```

1

```
print(my_dict['key2'][3].lower())
```

2

```
print(my_dict['key2'][-3].lower())
```

3 ✓

```
print(my_dict['key2'][2].lower())
```

4

✓ 8. What will be the output of the following program ? * 3/3

```
tuple = (1, 2, 3)
print(2 * tuple)
```

- (1, 2, 3, 1, 2, 3) ✓
- (1, 2, 3, 4, 5, 6)
- (3, 6, 9)
- error

✓ 9.What is the output of the following program? * 3/3

```
T1 = (1)
T2 = (3, 4)
T1 += 5
print(T1)
print(T1 + T2)
```

- (1,2,4)
- (1,2,3,4)
- (1,2,3)
- error ✓

✓ 10. What is the output of the following program? * 3/3

```
L1 = []
L1.append([1, [2, 3], 4])
L1.extend([7, 8, 9])
print(L1[0][1][1]+ L1[2])
```

- [ ] [7,8,9]
- [ ] 4
- [x] 11 ✓
- [ ] Type Error: can only concatenate list (not “int”) to list

✓ 11. What is the output of the following program? * 3/3

```
L1 = [2, 1.33, 'mach', 0, 'ine', None, 'G', True]
val1, val2 = 0, ''
for x in L1:
    if(type(x) == int or type(x) == float):
        val1 += x
    elif(type(x) == str):
        val2 += x
    else:
        break
print(val1, val2)
```

- ○ 2 mach
- ○ 2.33
- ○ 3.33 machineG
- ◉ 3.33 machine ✓

✓ 12. What is the output of the following program? * 3/3

```
d=[]
for i in [1, 2, 3, 4][::-1]:
    d.append(i)
print (d)
```

- ○ [1,3]
- ◉ [4, 3, 2, 1] ✓
- ○ [1,2,3]
- ○ error

✓ 13. To grab 'hello' in the following dictionary * 5/5

```
d ={'k1':[1,2,{'k2':['this is tricky',{'tough':[1,2,['hello']]}]}]}
```

```
print(d['k1'][2]['k2'][1])
```

○ 1

```
print(d['k1'][2]['k2'][1]['tough'])
```

○ 2

```
print(d['k1'][2]['k2'][1]['tough'][2][0])
```

◉ 3 ✓

```
print(d['k1'][2]['k2'][1]['tough'][2])
```

○ 4

✓ 14. What is the output of the following program? * 5/5

```
T = (1, 2, 3, 4, 5, 6, 7, 8)
print(T[T[T[6]-3]-6])
```

- ○ 6
- ○ error
- ◉ 8 ✓
- ○ 3