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1. What is the output when following code is executed ?

```
names = ['Amir', 'Bear', 'Charlton', 'Daman']  
print(names[-1][-1])
```

- a) A
- b) Daman
- c) Error
- d) n

2. Suppose list1 = [0.5 * x for x in range(0, 4)], list1 is :

- a) [0, 1, 2, 3]
- b) [0, 1, 2, 3, 4]
- c) [0.0, 0.5, 1.0, 1.5]
- d) [0.0, 0.5, 1.0, 1.5, 2.0]

3. To add a new element to a list we use which command ?

- a) list1.add(5)
- b) list1.append(5)
- c) list1.addLast(5)
- d) list1.addEnd(5)

4. To insert 5 to the third position in list1, we use which command ?

- a) list1.insert(3, 5)
- b) list1.insert(2, 5)
- c) list1.add(3, 5)
- d) list1.append(3, 5)

5. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.reverse() ?

- a) [3, 4, 5, 20, 5, 25, 1, 3]
- b) [1, 3, 3, 4, 5, 5, 20, 25]
- c) [25, 20, 5, 5, 4, 3, 3, 1]
- d) [3, 1, 25, 5, 20, 5, 4, 3]

6. What is the output when the following code is executed ?

```
>>>"Welcome to Python".split()
```

- a) ["Welcome", "to", "Python"]
- b) ("Welcome", "to", "Python")
- c) {"Welcome", "to", "Python"}
- d) "Welcome", "to", "Python"

7. What is the output when following code is executed ?

```
>>>list("a#b#c#d".split('#'))
```

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- a) ['a', 'b', 'c', 'd']
- b) ['a b c d']
- c) ['a#b#c#d']
- d) ['abcd']

8. What is the output when following code is executed ?

```
def f(values):  
    values[0] = 44  
v = [1, 2, 3]  
f(v)  
print(v)
```

- a) [1, 44]
- b) [1, 2, 3, 44]
- c) [44, 2, 3]
- d) [1, 2, 3]

9. What will be the output?

```
names1 = ['Amir', 'Bala', 'Chales']
```

```
if 'amir' in names1:
```

```
    print(1)
```

```
else:
```

```
    print(2)
```

- a) None
- b) 1
- c) 2
- d) Error

10. What will be the output?

```
m = [[x, x + 1, x + 2] for x in range(0, 3)]
```

- a) [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
- b) [[0, 1, 2], [1, 2, 3], [2, 3, 4]]
- c) [1, 2, 3, 4, 5, 6, 7, 8, 9]
- d) [0, 1, 2, 1, 2, 3, 2, 3, 4]

11. How many elements are in m?

```
m = [[x, y] for x in range(0, 4) for y in range(0, 4)]
```

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- a) 8
- b) 12
- c) 16
- d) 32

12. What will be the output?

```
data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]  
print(data[1][0][0])
```

- a) 1
- b) 2
- c) 4
- d) 5

13. What will be the output?

```
points = [[1, 2], [3, 1.5], [0.5, 0.5]]  
points.sort()  
print(points)
```

- a) [[1, 2], [3, 1.5], [0.5, 0.5]]
- b) [[3, 1.5], [1, 2], [0.5, 0.5]]
- c) [[0.5, 0.5], [1, 2], [3, 1.5]]
- d) [[0.5, 0.5], [3, 1.5], [1, 2]]

14. What is the output of the following code?

```
a=[10,23,56,[78]]  
b=list(a)  
a[3][0]=95  
a[1]=34  
print(b)
```

- a) [10,34,56,[95]]
- b) [10,23,56,[78]]
- c) [10,23,56,[95]]
- d) [10,34,56,[78]]

15. What is the output of the following code?

```
lst=[3,4,6,1,2]  
lst[1:2]=[7,8]
```

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```
print(lst)
a) [3, 7, 8, 6, 1, 2]
b) Syntax error
c) [3,[7,8],6,1,2]
d) [3,4,6,7,8]
```

16. What is the output of the following code?

```
a=["Apple","Ball","Cobra"]
a.sort(key=len)
print(a)
a) ['Apple', 'Ball', 'Cobra']
b) ['Ball', 'Apple', 'Cobra']
c) ['Cobra', 'Apple', 'Ball']
d) Invalid syntax for sort()
```

17. What is the out put of the code

```
print(list(map(lambda x: x**-1, [1, 2, 3])))
a) [1.0, 0.5, 0.3333333333333333]
b) None
c) [0.3333333333333333, 1.0, 0.5]
d) error
```

18. Suppose t = (1, 2, 4, 3), which of the following is incorrect?

```
a) print(t[3])
b) t[3] = 45
c) print(max(t))
d) print(len(t))
```

19.What is the output of the following piece of code when executed in Python shell?

```
a=(1,2)
b=(3,4)
c=a+b
print(c)
a) (4,6)
b) (1,2,3,4)
c) Error as tuples are immutable
d) None
```

20. What is the output of the following piece of code?

```
a=[(2,4),(1,2),(3,9)]
```

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```
a.sort()
print(a)
a) [(1, 2), (2, 4), (3, 9)]
b) [(2,4),(1,2),(3,9)]
c) Error because tuples are immutable
d) Error, tuple has no sort attribute
```

21. What is the output of the following code?

```
a={4,5,6}
b={2,8,6}
print(a+b)
a) {4,5,6,2,8}
b) {4,5,6,2,8,6}
c) Error as unsupported operand type for sets
d) Error as the duplicate item 6 is present in both sets
```

22. What is the output of the following piece of code?

```
a={5,6,7,8}
b={7,8,10,11}
print(a^b)
a) {5,6,7,8,10,11}
b) {7,8}
c) Error as unsupported operand type of set data type
d) {5,6,10,11}
```

23. What is the output of the following piece of code?

```
a={5,6,7,8}
b={7,5,6,8}
print(a==b)
a)True
b)False
c)None
d)Error
```

24. Is the following piece of code valid?

```
a={3,4,{7,5}}
print(a[2][0])
```

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- a) Yes, 7 is printed
- b) Error, elements of a set can't be printed
- c) Error, unhashable type: 'set'
- d) Yes, {7,5} is printed

25. What is the output of the following piece of code?

```
a={1,2,3}  
b=a.copy()  
b.add(4)  
print(a)
```

- a) {1,2,3}
- b) Error, invalid syntax for add
- c) {1,2,3,4}
- d) Error, copying of sets isn't allowed

26. What is the output of the following piece of code?

```
a={1,2,3}  
b={1,2,3}  
c=a.issubset(b)  
print(c)
```

- a) True
- b) Error, no method called issubset() exists
- c) Syntax error for issubset() method
- d) False

**27. Set makes use of _____
Dictionary makes use of _____**

- a) keys, keys
- b) key values, keys
- c) keys, key values
- d) key values, key values

28. Write a list comprehension for number and its cube for:

l=[1, 2, 3, 4, 5, 6, 7, 8, 9]

- a) [x**3 for x in l]
- b) [x^3 for x in l]

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- c) `[x**3 in l]`
- d) `[x^3 in l]`

29. What is the output of the code shown below?

```
for x in set('pqr'):  
    print(x*2,end="")
```

- a) pp, rr, qq
- b) pqr, pqr
- c) ppqqr
- d) pqrpqr

30. What is the output of the code shown below?

```
s1={1, 2, 3}  
s2={3, 4, 5, 6}  
print(s1.difference(s2))  
print(s2.difference(s1))
```

- a) {1, 2}
 {4, 5, 6}
- b) {1, 2}
 {1, 2}
- c) {4, 5, 6}
 {1, 2}
- d) {4, 5, 6}
 {4, 5, 6}