

Question Bank Programming with PYTHON

1. What will be the output of following print statements?

a. `print ('abc' * 2)`

b. `print (3+4j + 2+1j)`

c. `print (3*2 // 4)`

2. State the reasons for using python for software applications.

3. `data=input ("enter a number")`

`x=data*0`

`y=int(data)*0`

`z=bool(data*0)`

`print(x)`

`print(y)`

`print(z)`

4. Explain any six arithmetic operators of python with suitable examples of each.

5. Explain all comparison operators of python with suitable examples of each.

6. Explain all bitwise operators of python with suitable examples of each.

7. Differentiate between List, Tuple & Set with suitable examples of each.

8. Find the output of the following program.

`n=11`

`for i in range (n, 0, -1):`

`print((n-i) * ' ' + i * '*')`

9. Find the output of the program

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

`print (a [3::3])`

10.. Find the output of the program

`a= [1,2,3,4,5]`

`print (a [4:0: -1])`

11. Print output of the following program.

`data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]`

`def fun(m):`

```
v = m [0][0]
```

```
for row in m:
```

```
    for element in row:
```

```
        print(row)
```

```
        print(element)
```

```
        if v < element:
```

```
            v = element
```

```
    return v
```

```
print (fun (data [0]))
```

12. Explain any three collection data types of Python with suitable examples of each.

13. Explain append () and copy () methods of list with suitable examples of each.

14.. Explain following operators of python with suitable examples of each.

a. is,

b. in,

c. not in

15. Print the output of the following program

```
rows = 6
```

```
rows = int (input ('Enter the number of rows'))
```

```
for i in range(rows):
```

```
    for j in range(i):
```

```
        print (i,end=' ')
```

```
    print ('')
```

16. Explain break, continue and pass statement with suitable example of each.

17. what are the properties of Dictionary Keys?

18. Explain the various data types in python?