Python

1. Convert a Tuple t = (1,2,3,4,5) to a list
2. WAP to join a list and a tuple:

   L = [1,3,5,7]

   T = (8,6,4,2)

   Store the result in a list LS

3. What is difference between list and tuple.
4. Print the list in reverse order

   l = [‘a’, ‘d’, ‘c’, ‘A’, ‘C’]

5. Print Elements at Odd indexes from a list **(Do not use loop)**

   l = [10,11,20, 21,30, 31, 40, 41]

6. How many ways you can copy a list.
7. Predict output

```
n_list = ["Happy", [2,0,1,5]]
print(n_list[0][1])
print(n_list[1][3])
```

8. Predict output

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

9. Predict output

```
odd = [1, 3, 5]
odd.append([7, 9])
print(odd)
odd.extend([11, 13])
print(odd)
```

10. Predict output

```
x = 1,2,3; print(type(x))
x = (1) ; print(type(x))
x = 1 ; print(type(x))
x = 1, ; print(type(x))
```

11. Try to represent a matrix with following data in python:

1 2 3

4 5 6

7 8 9

12. Predict output

```
t1 = tuple('string')
t3 = t1 + t2
print(t3)
```

13. Predict output

```
t = tuple('string')
print(t)
print(t[::-1])
print(t[::2][::-2])
```

14. Predict output

```
t = tuple( [10, 20, 30, 40, 50, 60] )
print(60 in t3)
print('60' in t3)
print( int(10 in t3) )
print( int(1 in t3) )
```

15. Write a program to input a string and print if it is palindrome or not.

16. Use the range method and create a tuple containing the following values:
(20, 15, 10, 5)

17. WAP to convert string to list of characters.

18. What is the return type of:

```
print(type( '1 2'.split() ))
print(type( [1, 3, 2].sort() ))
print(type( 'abc'.toupper() ))
print(type(  1 in [1, 2] ))
```