

PYTHON LISTS ASSIGNMENT

1. Print Each Element: Given numbers = [1, 2, 3, 4, 5], use a for loop to print each number.

```
numbers=[1,2,3,4,5]
for i in numbers:
    print(i)
```

```
[Running] python -u
1
2
3
4
5
```

2. Print List Elements with Text: Given fruits = ["apple", "banana", "cherry"], use a for loop to print:
I like apple
I like banana
I like cherry

```
fruits = ["apple", "banana", "cherry"]
for i in fruits:
    print(f'I like {i}')
```

```
[Running] python -u "e:\10
py"
I like apple
I like banana
I like cherry
```

3. Sum of List Elements: Given numbers = [10, 20, 30, 40], use a for loop to calculate and print the total sum.

```
numbers = [10, 20, 30, 40]
sum=0
for i in numbers:
    sum+=i
print(sum)
```

▼ OUTPUT

```
[Running]
py"
100
```

4. Count Even Numbers: Given numbers = [1, 2, 3, 4, 5, 6], use a for loop to count how many numbers are even.

```
numbers = [1,2,3,4,5,6]
count=0
for i in numbers:
    if i%2==0:
        count+=1
print("Number of Even Numbers are:",count)
```

```
Coders\Python\list.py"
Number of Even Numbers are: 3

[Done] exited with code=0 in 0
[Running] python -u "e:\10K
Coders\Python\list.py"
```

5. Find the Largest Number: Given numbers = [3, 7, 2, 8, 5], use a for loop to find and print the largest number.

```
numbers = [3, 7, 2, 8, 5]
max=0
for i in numbers:
    if i>max:
        max=i
print("Largest Number:",max)
```

```
[Running] python -u
Coders\Python\list.
Largest Number: 8

[Done] exited with
```

6. Copy a List: Given original = [5, 10, 15, 20], use a for loop to copy all elements into a new list. Multiply Each Element by 2:

```
original = [5, 10, 15, 20]
new_list=[]
for i in original:
    j=i*2
    new_list.append(j)
print(new_list)
```

```
[Running] python -u
Coders\Python\list.
[10, 20, 30, 40]

[Done] exited with
```

7. Given numbers = [1, 2, 3, 4], use a for loop to create a new list where each number is doubled.

```
numbers = [1, 2, 3, 4]
new_list=[]
for i in numbers:
    j=i*2
    new_list.append(j)
print(new_list)
```

```
[Running] pyth
Coders\Python\
[2, 4, 6, 8]

[Done] exited
```

8. Reverse a List (Using Loop): Given words = ["hello", "world", "python"], use a for loop to print the elements in reverse order.

```
words = ["hello", "world", "python"]
new_list=[]
for i in range(len(words)-1,-1,-1):
    new_list.append(words[i])
print(new_list)
```

```
[Running] python -u "e:\10K
Coders\Python\list.py"
['python', 'world', 'hello']

[Done] exited with code=0 in
```

9. Find Words Starting with 'A': Given words = ["apple", "banana", "avocado", "grape"], use a for loop to print only the words that start with "a".

```
list1= ["apple", "banana", "avocado", "grape"]
new_list=[]
✓ for j in list1:
✓     if j.startswith("a") or j.startswith("A"):
        new_list.append(j)
print(new_list)
```

```
[Running] python -u "e:
Coders\Python\list.py"
['apple', 'avocado']

[Done] exited with code
seconds
```

10. Create a New List with Only Positive Numbers: Given numbers = [-5, 10, -3, 7, -2, 8], use a for loop to create a new list containing only the positive numbers.

```
numbers=[-5, 10, -3, 7, -2, 8]
pos_list=[]
for r in numbers:
    if r>0:
        pos_list.append(r)
print(pos_list)
```

```
[Running] python
Coders\Python\l
[10, 7, 8]

[Done] exited w
seconds
```