

29-11-23

## List as Arrays

Day 56

Array  $\Rightarrow$  It is a collection of similar datatype.

Eg:

$A = \{1, 2, 3, 4, 5\}$  # other lang

$A = [1, 2, 3, 4, 5]$  # Python

- One dimensional array.

Eg:  $A = [0] * 10$

`print(A)`

`n = int(input("Enter n: "))`

`print("Enter Array Elements: ")`

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

`A[i] = int(input())`

Q1 Write a python program to add the elements of an array.

```
#n and i are s - ...  
for i in range(0, n):  
    s += A[i]  
print(s)
```

• Two dimensional array / Multi-dimensional array

Q2.  $A = [0] * 10$

```
print(A)
```

```
for i in range(0, 3):
```

```
    A[i] = A[0] * 3
```

```
for i in range(0, 3):
```

```
    for j in range(0, 3):
```

```
        A[i][j] = int(input())
```

```
for i in range(0, 3):
```

```
    for j in range(0, 3):
```

```
        print(A[i][j]), #end = ' '
```

```
print("Thank you")
```

Q3.  $n = \text{float}(\text{input}(\text{"Enter no :"}))$

```
ex = n ** 0.5
```

```
print("Square root : ", ex)
```

Q4. Exponentiation

```
import math
```

```
n = int(input("Enter a number :"))
```

```
print("Exponentiation = ", math.exp(n))
```