

Arrays In Python

An array is a collection of items where each item has its own index value, and the index starts from 0.

Python doesn't have built-in support for Arrays, but we can import array and use them.

Basically arrays is an object in python

Array object are in dynamic in nature

Use array module in user defined array

After importing we need to create of array class

Various ways to create array

- Import array
- From array import *
- Import array as <anyname>

Import array method

```
import array
a=array.array('i',[12,13,14])
print(a[0])
```

```
from array import *
a=array('i',[12,13,14])
print(a[0])
```

declaring array object

Import array as <anyname>

Array_name=arr_name.array('type code',[elements])

```
import array as arr
a=arr.array('i',[])
n=int(input('enter n='))
for i in range(n):
    a.append(int(input()))

for i in range(n):
    print('a['+str(i)+']='+str(a[i]))
```

append()

appends in number,char,string at the end of any sequence.

Insertr()- insert any value to the perticular position

Insert(position,vlaue)

```
import array as arr
a=arr.array('i',[])
n=int(input('enter n='))
for i in range(n):
    a.append(int (input()))

for i in range(n):
    print('a[,i,]=' ,a[i])

pos=int(input('enter position='))
value=int(input("enter value="))
n=n+1
a.insert(pos,value)
for i in range(n):
    print('a[,i,]=' ,a[i])
```

Remove()-removes first occurance of sequence of value

```
import array as arr
a=arr.array('i',[])
n=int(input('enter n='))
for i in range(n):
    a.append(int (input()))

for i in range(n):
    print('a[,i,]=' ,a[i])

a.remove(12)
print(a)
```

Pop()-it removes last value in sequence

```
import array as arr
a=arr.array('i',[])
n=int(input('enter n='))
for i in range(n):
    a.append(int (input()))
```

```
for i in range(n):
    print('a[' ,i, ']=',a[i])
a.pop()
print(a)
```

reverse an count method

```
import array as arr
a=arr.array('i',[])
n=int(input('enter n='))
for i in range(n):
    a.append(int (input()))

for i in range(n):
    print('a[' ,i, ']=',a[i])
a.reverse()
print(a)
```

count method

```
import array as arr
a=arr.array('i',[])
n=int(input('enter n='))
for i in range(n):
    a.append(int (input()))

cnt=int(input('enter no to be count='))

total=a.count(cnt)
print('nos to be count in array=',total)
```