# ds-day-2-1-array

July 25, 2024

### 1 sum of two numbers using function

### 2 Factorial using for loop

```
[11]: n=int(input("enter n="))
  fact=1
  for i in range(1,n+1):
     fact=fact*i
  print(fact)

enter n=6
720
```

## 3 Array

68

```
[14]: import array as arr
a=arr.array('i',[11,56,698,68,2,564,3,5])
for i in range(0,8):
    print(a[i])

11
56
698
```

```
2
     564
     3
     5
[23]: #### using len
[25]: import array as arr
     a=arr.array('i',[1,2,3])
     for i in range(len(a)):
         print(a[i])
     b=arr.array('d',[2.5,3.2,3.5])
     for i in range(len(b)):
         print(b[i])
     1
     2
     3
     2.5
     3.5
     3.2
     3.0.1 insert
[30]: import array as arr
     a=arr.array('i',[1,2,3])
     for i in range(len(a)):
         print(a[i])
     b=arr.array('d',[2.5,3.2,3.5])
     for i in range(len(b)):
         print(b[i])
     1
     4
     2
     3
     2.5
     3.2
     3.5
[69]: ##append(to add onley one element at the end)
[34]: import array as arr
     a=arr.array('i',[1,2,3])
     for i in range(len(a)):
```

```
print(a[i])
     b=arr.array('d',[2.5,3.2,3.5])
     for i in range(len(b)):
        print(b[i])
    1
    2
    3
    2.5
    3.2
    3.5
    4.4
[]: ## print only any one element
[35]: import array as arr
     a=arr.array('i',[1,2,3])
     for i in range(len(a)):
        print(a[i])
     b=arr.array('d',[2.5,3.2,3.5])
     1
    2
    3
    2.5
[39]: ## using remove(in remove write value)
[44]: import array as arr
     a=arr.array('i',[1,2,3])
     for i in range(len(a)):
        print(a[i])
     b=arr.array('d',[2.5,3.2,3.5])
     for i in range(len(b)):
        print(b[i])
    1
    2
    3
    3.2
    3.5
```

```
[37]: ##using pop (in pop write index number)
[46]: import array as arr
     a=arr.array('i',[1,2,3])
     for i in range(len(a)):
         print(a[i])
     b=arr.array('d',[2.5,3.2,3.5])
     for i in range(len(b)):
         print(b[i])
    1
    2
    3
    2.5
    3.2
[47]: import array as arr
     a=arr.array('i',[1,2,3])
     for i in range(len(a)):
         print(a[i])
     b=arr.array('d',[2.5,3.2,3.5])
     1
    2
    3
[47]: 3.5
[49]: ##serching an element in array(first occurance of any number)(using index)
[53]: import array as arr
     a=arr.array('i',[1,2,3])
     b=a.index(3)#####
     print(b)
[56]: ##updating array
[58]: import array as arr
     a=arr.array('i',[1,2,3])
```

```
a[2]=20######################
      for i in range(len(a)):
          print(a[i])
     1
     2
     20
[60]: ##count (to count any element in array how many times)
[62]: import array as arr
      a=arr.array('i',[1,2,3])
      b=a.count(2)
      print("count of 2 is",b)
      for i in range(len(a)):
          print(a[i])
     count of 2 is 1
     2
     3
 []: ##Reverse
[65]: import array as arr
      a=arr.array('i',[1,2,3])
      a.reverse()########
      for i in range(len(a)):
          print(a[i])
     3
     2
     1
[66]: #extend(to add more than one value at last)
[68]: import array as arr
      a=arr.array('i',[1,2,3])
      a.extend((1,2))#########
      for i in range(len(a)):
```

# print(a[i]) 1 2 3 1 2 1 1 1 2 []: ##