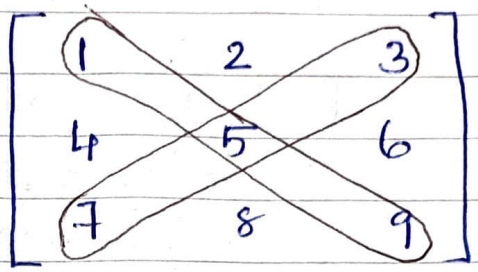
(8) Given an 2D list calculate the sum of diagonal elements

Ans.



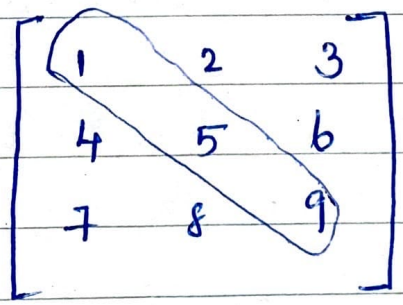
diagonal elements are
a[0][0]
a[1][1]
a[2][2]

```
def diagonal_sum (my_array):
    sum = 0
    for i in range (len(my_array)):
        sum += my_array[i][i]
    print (sum).
```

⇒ Import numpy as np.

```
twoD_array = np.array ([[1,2,3], [4,5,6], [7,8,9]])
diagnal_sum (twoD_array)
```

↳ (15)



1+5+9 => (15)

Imp note

len (my_array) ⇒ returns the number of rows.

len (my_array[0]) ⇒ returns the number of colums