

Q2_2347126

August 7, 2023

LISTS

Is the given list divisible by 3 or NOT?

```
[ ]: import random
empid=[]
isin3=[]
isnotin3=[]
for i in range (1,20):
    empid.append(random.randint(1,100))
for j in empid:
    if j%3==0:
        isin3.append(j)
    else:
        isnotin3.append(j)
print("Employee Ids which are in 3rd frequency positions : ", isin3)
print("Employee Ids which are not in 3rd frequency positions: ", isnotin3)
```

Employee Ids which are in 3rd frequency positions : [48, 24, 27, 72]

Employee Ids which are not in 3rd frequency positions: [59, 37, 64, 74, 79, 40, 22, 19, 83, 55, 82, 88, 80, 71, 47]

Square of even numbers in a list

```
[ ]: squares=[]
for i in empid:
    if i%2==0:
        squares.append(i**2)
print("The square of even Id's is :", squares)
```

The square of even Id's is : [4096, 5476, 1600, 484, 2304, 576, 6724, 7744, 6400, 5184]

Sum of digits of all EVEN numbers in a list

```
[ ]: sum=0
for i in empid:
    if i%2==0:
        sum+=i
print("Sum of all even numbers is: ", sum)
```

Sum of all even numbers is: 594

Remove duplicate numbers in a list

```
[ ]: noduplicateid=[]
for i in empid:
    if i not in noduplicateid:
        noduplicateid.append(i)
print("The list with no duplicate values is: ",noduplicateid)
```

The list with no duplicate values is: [59, 37, 64, 74, 79, 40, 22, 48, 19, 83, 24, 55, 82, 88, 80, 71, 47, 27, 72]

2. Dictionary Create a dictionary to store the details of your company employees (name as key and birthdate as value). { 'Virat Kohli': '5 November 1988', 'Umesh Yadav': '25 October 1987', 'Manish Pandey': '10 September 1989', 'Rohit Sharma': '30 April 1987', 'Ravindra Jadeja': '6 December 1988', 'Hardik Pandya': '11 October 1993' } Write a function birthDate() that takes the full name of your employees(as a string) and displays the given employee's birthdate.

```
[ ]: DOB={ "Virat Kohli": "5 November 1988", "Umesh Yadav": "25 October 1987",
↵"Manish Pandey": "10 September 1989", "Rohit Sharma": "30 April 1987",
↵"Ravindra Jadeja": "6 December 1988", "Hardik Pandya": "11 October 1993" }
def birthDate(name):
    print(DOB.get(""+name+""))

name=input("enter the name of the employee")
birthDate(name)
```

None