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# 1. LIST
# Write a PYTHON script with List comprehension for the following
# • Is the given list divisible by 3 or NOT?
listItems = [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20]
\#listItems = [9,21,12]
result = [num for num in listItems if num % 3 == 0]
if len(result) == len(listItems):
    print("Divisible by 3")
else:
    print("Not Divisible by 3")
# • Square of even numbers in a list
even numbers = [num for num in listItems if num % 2 == 0]
print("Even numbers:", even numbers)
# def square(even numbers):
     return [i ** 2 for i in even numbers]
square = [i ** 2 for i in even numbers]
print("Square of numbers are", square)
# • Sum of even numbers in a list
sum of digits = sum(even numbers)
print("The sum of digits of all even numbers in the list is:",
sum of digits)
# • Remove duplicate numbers in a list
list2 = [1, 2, 4, 2, 1, 4, 5, 1, 2, 1, 44, 14]
print("Original List: ", list2)
res = list(set(list2))
print("List after removing duplicate elements: ", res)
Not Divisible by 3
Even numbers: [2, 4, 6, 8, 10, 12, 14, 16, 18, 20]
Square of numbers are [4, 16, 36, 64, 100, 144, 196, 256, 324, 400]
The sum of digits of all even numbers in the list is: 110
Original List: [1, 2, 4, 2, 1, 4, 5, 1, 2, 1, 44, 14]
List after removing duplicate elements: [1, 2, 4, 5, 44, 14]
# 2. Dictionary
# Create a dictionary to store the details of your company employees
(name as key and birthdate as value).
def birthDate(employee name):
    dict1 = {'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
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Pandya': '11 October 1993'}
   if employee_name in dict1:
        return dict1[employee_name]
   else:
        return 'Error: Employee not found.'

birthDate(input("Enter the Employee Full Name"))
'5 November 1988'
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