

In [1]: `import jovian`

```
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ModuleNotFoundError                                Traceback (most recent call last)
C:\Users\VAISHN~1\AppData\Local\Temp\ipykernel_5324\749248196.py in <module>
----> 1 import jovian

ModuleNotFoundError: No module named 'jovian'
```

In [ ]: `## assignments`

In [2]: `### 1. Given a two list.  
# Create a third list by picking an odd-index element from the first list and even index`

In [3]:

```
list1 = [3, 6, 9, 12, 15, 18, 21]
list2 = [4, 8, 12, 16, 20, 24, 28]
list3 = []
list4 = []
for i in range(0, len(list1)):
    if(i%2!=0):
        list3.append(list1[i])
for j in range(0, len(list2)):
    if(j%2==0):
        list4.append(list2[j])
print("Elements at odd-index position from list1\n", list3)
print("Elements at even-index position from list2\n", list4)
print("Printing Final third list\n", list3+list4)
```

```
Elements at odd-index position from list1
[6, 12, 18]
Elements at even-index position from list2
[4, 12, 20, 28]
Printing Final third list
[6, 12, 18, 4, 12, 20, 28]
```

In [ ]: `### 2. Given a number count the total number of digits in a number`

In [4]:

```
n=int(input("Enter the number: "))
num=n
a=int(input("Enter the digit to count: "))
l=[]
while(num>0):
    digit=num%10
    l.append(digit)
    num=num//10
print(l.count(a))
```

```
Enter the number: 564656566
Enter the digit to count: 5
3
```

In [ ]: `## question no 3  
## write a Python program to print the numbers of a specified list after removing ev`

In [5]:

```
a=[10,11,12,13,14,16,18,17,19,20]
for i in(a):
    if(i%2==0):
        a.remove(i)
print(a)
```

```
[11, 13, 16, 17, 19]
```

```
In [ ]: ## question 4
```

```
In [ ]: # question 5
        ## Write a Python program to generate all permutations of a list in Python.
```

```
In [6]: L1=[1,2,3,4]
def permutations(start, end=[]):
    if len(start) == 0:
        print(end)
    else:
        for i in range(len(start)):
            permutations(start[:i] + start[i+1:], end + start[i:i+1])
permutations(L1)
```

```
[1, 2, 3, 4]
[1, 2, 4, 3]
[1, 3, 2, 4]
[1, 3, 4, 2]
[1, 4, 2, 3]
[1, 4, 3, 2]
[2, 1, 3, 4]
[2, 1, 4, 3]
[2, 3, 1, 4]
[2, 3, 4, 1]
[2, 4, 1, 3]
[2, 4, 3, 1]
[3, 1, 2, 4]
[3, 1, 4, 2]
[3, 2, 1, 4]
[3, 2, 4, 1]
[3, 4, 1, 2]
[3, 4, 2, 1]
[4, 1, 2, 3]
[4, 1, 3, 2]
[4, 2, 1, 3]
[4, 2, 3, 1]
[4, 3, 1, 2]
[4, 3, 2, 1]
```

```
In [7]: ## 6
        a python program to check whether two lists are circularly identical.
```

File "C:\Users\VAISHN~1\AppData\Local\Temp\ipykernel\_5324\2500126601.py", line 2  
a python program to check whether two lists are circularly identical.

**SyntaxError:** invalid syntax

```
In [8]: a=[3,4,5,0,1,2]
        b=[0,1,2,3,4,5]
        c=0
        d=0
```

```

while True:
    e=a[0]
    a.pop(0)
    a.append(e)
    d=len(b)
    c+=1
    if a==b:
        print (a,'and',b,'are Circularly identical')
        break
    if c==d:
        print (a,'and',b,'are Not circularly identical')
        break

```

[0, 1, 2, 3, 4, 5] and [0, 1, 2, 3, 4, 5] are Circularly identical

In [ ]: change the position of every n-th value with the (n+1)th in a list.

In [9]:

```

list=[0,1,2,3,4,5]
for i in range(0,5):
    for j in range(0,i+1):
        list[i],list[i+1]=list[i+1],list[i]
print(list,end=" ")

```

[1, 0, 3, 2, 5, 4]

In [ ]: # 8. Write a Python program to iterate over two lists simultaneously.

In [11]:

```

a = [4,8,5,6]
b = [6,2,8,9,7]
c = []
j= 0
for i in a:
    c.append(i)

    c.append(b[j])
    j +=1
c

```

Out[11]: [4, 6, 8, 2, 5, 8, 6, 9]

In [ ]: # 10. Write a Python program to remove duplicates from a list of lists.

In [12]:

```

l1=[[10,20],[40],[30,56,25],[10,20],[33],[40]]
l1=sorted(l1)
l2=[]
for i in l1:
    if i not in l2:
        l2.append(i)
print("list with duplicates",l1)
print("List without duplicates",l2)

```

list with duplicates [[10, 20], [10, 20], [30, 56, 25], [33], [40], [40]]  
 List without duplicates [[10, 20], [30, 56, 25], [33], [40]]

In [ ]:

