

session2_exercise

October 7, 2020

```
[1]: # No1:
list1=[1,'a',2,'b']
print('Original list was:\n',list1)
print('The reverse list is:\n',list1[::-1])
```

```
Original list was:
[1, 'a', 2, 'b']
The reverse list is:
['b', 2, 'a', 1]
```

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[2]: # No2:
for i in [1,2,3,4,5,4,3,2,1]:
    print('*'*i)
```

```
*
**
***
****
*****
****
***
**
*
```

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[3]: # No3:
for i in range(100,1000):
    if i%35==0:
        print(i)
```

```
105
140
175
210
245
280
315
350
385
```

420
455
490
525
560
595
630
665
700
735
770
805
840
875
910
945
980

```
[4]: # No4:
Fibonacci=[0,1]
while (Fibonacci[len(Fibonacci)-1]<100):
    Fibonacci.append(Fibonacci[len(Fibonacci)-2]+Fibonacci[len(Fibonacci)-1])
i=0
while (Fibonacci[i]<100):
    print(Fibonacci[i])
    i+=1
```

0
1
1
2
3
5
8
13
21
34
55
89

```
[5]: # No5:
input_string = input("Enter your list of numbers separated by space ")

userList = input_string.split()
print("user list is ", userList)

prime=0
```

```

for i in userList:
    for j in range(int(i)):
        if float(j)>2:
            if float(i%(float(j)-1))==0:
                prime=0
    if prime==0:
        print(i, ' is composite')
        prime=1
    else:
        print(i, ' is prime')

```

Enter your list of numbers separated by space 8 14 5 3 9 2 13 24
user list is ['8', '14', '5', '3', '9', '2', '13', '24']
8 is composite
14 is composite
5 is prime
3 is prime
9 is composite
2 is prime
13 is prime
24 is composite

```

[5]: # No6:
user_string = str( input('Please enter your list: ') )
a=[]
i=0
j=0

starting_index = 0

while i<len(user_string) :
    if user_string[i]=='.':
        j=1
        a.append(user_string[starting_index:i])
    if j==0:
        if user_string[i] == ' ':
            a.append(user_string[starting_index:i])
            starting_index = i+1
        else:
            pass
    i+=1
print(a)

```

Please enter your list: lshglkj lshglkj.dad
['lshglkj', 'lshglkj']

```
[7]: # No7:
row=int(input())
col=int(input())
list7=[]
for i in range(0,row):
    list7.append([])
    for j in range(0,col):
        num = int(input())
        list7[i].append(num)
for i in range(0,row):
    for j in range(0,col):
        if list7[i][j]%3==0:
            print('input[' ,i, '][',j,']')
```

```
2
3
4
3
2
6
4
9
input[ 0 ][ 1 ]
input[ 1 ][ 0 ]
input[ 1 ][ 2 ]
```

```
[8]: # No8:
howMuch=0
stock={"blue pens":8 , "pencils":7 , "note books":4 , "erasers":3}
prices={"blue pens":3000 , "pencils":2000 , "note books":4500 , "erasers":1500}
for key,value in stock.items():
    for key2,value2 in prices.items():
        if key2==key:
            print(key,'\t',value,'*',value2)
            howMuch+=(int(value)*int(value2))
print('>>>',howMuch)
```

```
blue pens      8 * 3000
pencils        7 * 2000
note books     4 * 4500
erasers        3 * 1500
>>> 60500
```

```
[ ]:
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