▾ Task - 01

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Problem-1

We are having 3 list like this

Colors = ["Yellow","Green","White","Black"]

Fruits=["Apple","Papaya","Mango","Orange"]

Animals=["Tiger","Lion","Deer","Zebra"]

i. Write a program that asks user to enter a Color/Fruit/Animal name and it should tell which category belongs to , like it is a fruit or color or Animal

```
1   Colors = ["Yellow","Green","White","Black"]
2   Fruits=["Apple","Papaya","Mango","Orange"]
3   Animals=["Tiger","Lion","Deer","Zebra"]
4   entry =input('Enter a Color/Fruit/Animal name: ')
5   if entry in Colors :
6     print('It is a Color.')
7   elif entry in Fruits :
8     print('It is a Fruit.')
9   elif entry in Animals:
10    print('It is an Animal.')
11  else:
12    print('Sorry! wrong input.')

    Enter a Color/Fruit/Animal name: Black
    It is a Color.
```

ii. Write a program that asks user to enter two cities and it tells you if they both are in same country or not. For example if I enter yellow and Black, it will print "Both are colors" but if I enter yellow and Tiger it should print "They don't belong to same category"

```
1   ue1 = input('Enter your category: ')
2   ue2 = input('Enter one more: ')
3   if ue1 in Colors and ue2 in Colors :
4     print ('Both are Colors.')
5   elif ue1 in Fruits and ue2 in Fruits :
6     print ('Both are Fruits.')
7   elif ue1 in Animals and ue2 in Animals :
8     print ('Both are Animals.')
9   else :
```

```
10      print("Your inputs don't belong to the same category.")
```

```
Enter your category: Lion
Enter one more: Tiger
Both are Animals.
```

▾ Problem 2

Write a python program that can tell you if your grade score good or not . Normal Score range is 40 to 60.

1. Ask user to enter his score.
2. If it is below 40 to 60 range then print that score is low
3. If it is above 60 then print that it is good otherwise print that it is normal

```
1   grade_score = int(input('Enter a score: '))
2   if grade_score > 60 :
3     print('Good score')
4   elif grade_score < 40 :
5     print('Low score')
6   else :
7     print('Normal score')
```

```
Enter a score: 76
Good score
```

▾ Problem-3

After appearing in exam 10 times you got this result,

result = ["Pass","Fail","Fail","Pass","Fail","Pass","Pass","Fail","Fail","Fail"]

Using for loop figure out how many times you got Pass

```
1   results = ["Pass","Fail","Fail","Pass","Fail","Pass","Pass","Fail","Fail","Fail"]
2   count = 0
3   for i in results :
4     if i == "Pass" :
5       count += 1
6   print('You passed {} times'.format(count) )
```

```
You passed 4 times
```

```
1   results = ["Pass","Fail","Fail","Pass","Fail","Pass","Pass","Fail","Fail","Fail"]
2
3   print('You passed {} times' .format(results.count("Pass")) )
```

```
        You passed 4 times
```

▾ Problem-4

Write a program that prints following shape

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

```
1   maxstars = 5
2   for i in range(1, maxstars+1):
3       print("* "*i)
4   for j in range(maxstars-1,0,-1):
5       print("* "*j)
```

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

▾ Problem-5

Lets say you are running a 50 km race. Write a program that,

Upon completing each 10 km asks you "are you tired?" If you reply "yes" then it should break and print "you didn't finish the race." If you reply "no" then it should continue and ask "are you tired" after every 10 km If you finish all 50 km then it should print congratulations message

```
1   for distance in range (1,51,10):
2     if (distance < 50) :
3       print('Reached {} kms. Are you tired? '.format(distance))
```

```
4        reply = input('Enter yes or no[Y/N]: ').lower()
5        if reply == "y" :
6          print("You did not finish the race.")
7          break
8        elif reply == "n" :
9          continue
10       else :
11          print('Invalid Input')
12      if distance == 50 :
13        print('Congratulations! You finished the race.')
```

```
Reached 1 kms. Are you tired?
Enter yes or no[Y/N]: n
Reached 11 kms. Are you tired?
Enter yes or no[Y/N]:
Invalid Input
Reached 21 kms. Are you tired?
Enter yes or no[Y/N]: n
Reached 31 kms. Are you tired?
Enter yes or no[Y/N]: n
Reached 41 kms. Are you tired?
Enter yes or no[Y/N]: n
```

Problem 6.

Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).

```
1    for num in range (1500,2700):
2      if (num % 7)==0 and (num % 5)==0:
3        print(num)
```

```
1505
1540
1575
1610
1645
1680
1715
1750
1785
1820
1855
1890
1925
1960
1995
2030
2065
2100
2135
```

```
2170
2205
2240
2275
2310
2345
2380
2415
2450
2485
2520
2555
2590
2625
2660
2695
```

▾ Problem 7

Print square of all numbers between 10 to 20 except even numbers

```
1   for num in range (10,20):
2     if (num % 2)!=0 :
3       print(num**2)
```

```
121
169
225
289
361
```

▾ Problem 8

Your Marks for five Test(test1 to test5) looks like this,

marks_list = [65, 75, 2100, 95, 83]

Write a program that asks you to enter marks and program should tell you in which test that marks occurred. If marks is not found then it should print that as well.

```
1   marks_list = [65, 75, 2100, 95, 83]
2   marks = int(input('Enter your marks: '))
3   if marks in marks_list:
4     print('You got this in test',marks_list.index(marks)+1)
5   else :
6     print('Your entered mark is not found.')
```

```
Enter your marks: 95
```

```
You got this in test 4
```

✓ 11s   completed at 3:21 PM   ● ✕

```
You got this in test 4
```