▾ Assignment 1

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QUESTION 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 its is a fruit or color or Animal

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

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

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

n = input("Enter color, fruit or animal name : ")

if n in Colors:

    print(n,"is a Color")

elif n in Fruits:

    print(n,"is a Fruit")

elif n in Animals:

    print(n,"is an Animal")

else:

    print("Sorry! not in any category")
```

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enter yellow and Tiger it should print "They don't belong to same category"

```
m = input("Enter a name :")

n = input("Enter a name :")

if m in Colors and n in Colors:

    print("Both are Colors")

elif m in Fruits and n in Fruits:

    print("Both are Fruits")

elif m in Animals and n in Animals:

    print("Both are Animals")

else:

    print("They don't belong to same category")

 Enter a name :orange
 Enter a name :mango
 They don't belong to same category
```

QUESTION 2

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

i. Ask user to enter his score.

ii. If it is below 40 to 60 range then print that score is low

iii. If it is above 60 then print that it is good otherwise print that it is normal

```
score=float(input("Enter your score: "))

if score > 60:

    print(f"{score} is good mark")

elif score < 40:
```

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

```
result = ["Pass","Fail","Fail","Pass","Fail","Pass","Pass","Fail","Fail","Fa

count = 0

for i in result:

  if i == "Pass":

    count += 1

print(f'You passed {count} times')

 You passed 4 times
```

QUESTION 4

Write a program that prints following shape

X

XX

XXX

XXXX

XXXXX

```
rows = 5

for i in range(0,rows):

  for j in range(0,i+1):

    print("x",end = " ")
```

x

QUESTION 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" on every km
If you finish all 50 km then it should print congratulations message
```

```python
for i in range(1,51):

  if i%10 == 0:

    n = input("Are you tired?")

    if n == "YES":

      print("You didn't finish the race")

      break

if i==50:

  print("Congratulations!! You finished the race")

else:

  print(f"congrats! You still ran {i} KM")
```

```
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
```

QUESTION 7

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

```
if test != -1:
    print(f'You got {mark} in {test_list[test]}')
else:
    print(f'Oops!, I found that You have entered the wrong mark {mark}. Plea
```

```
 Enter the mark: 65
 You got 65 in Test1
```