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

```
find = input(str("Enter the name"))
find = find.capitalize()
Colors =["Yellow","Green","White","Black"]
Fruits =["Apple","Papaya","Mango","Orange"]
Animals = ["Tiger","Lion","Deer","Zebra"]
if find in Colors:
  print("This is Color Category")
elif find in Fruits:
  print("This is Fruit Category")
elif find in Animals:
  print("This  is Animal Category")
else:
  print("Not find the lists Category")
```

```
    Enter the nameapple
    This is Fruit Category
```

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"

```
find,find1 = input("Enter the name :: ").split(", ")
find = find.capitalize()
find1 = find1.capitalize()
Colors =["Yellow","Green","White","Black"]
Fruits =["Apple","Papaya","Mango","Orange"]
Animals = ["Tiger","Lion","Deer","Zebra"]

if find in Colors and find1 in Colors:
    print("Both are Colors")

elif find in Fruits and find1 in Fruits:
    print("Both are Fruits")

elif find in Animals and find1 in Animals:
    print("Both are Animal")

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

```
        Enter the name :: Lion, yellow
        They don't belong to same category
```

2. Write a python program that can tell you if your grade score good or not . Good 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

```
user_input = int(input("Enter your Score ::"))

if user_input >= 40 and user_input <= 60:
    print("Score is Low")

elif user_input > 60:
    print("Score is Good")

else:
    print("Score is Normal")
```

```
Enter your Score ::33
Score is Normal
```

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

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

i = result.count("Pass")

print(i)
```

    4

4. Write a program that prints following shape

*

* *

* * *

* * * *

* * * * *

* * * *

* * *

* *

*

```
for i in range(5):
  for j in range(i+1):
    print("*", end = "")
  print()
for i in range(4):
  for j in range(4, i,-1):
    print("*", end = "")
  print()




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

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

```
for i in range(1,51):
  #print(i)
  if i == 50:
    print(i)
    print("Congratulations you have successfully finished the race")

  elif i%10 == 0:
    user_input = input("Are you tired :: ")
```

```
  if user_input == "yes":
    print("You didn't finish the race")
    break

  elif user_input == "no":
    print(i)
    continue
#print(i)
```

```
  Are you tired :: no
  10
  Are you tired :: no
  20
  Are you tired :: no
  30
  Are you tired :: no
  40
  50
  Congratulations you have successfully finished the race
```

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

```
for i in range (1500,2701):
    if(i%7==0 and i%5==0):
        print(i)
```

```
  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
```

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

```python
print("square of all numbers between 10 to 20 except even numbers are:")
for number in range(10, 21):

  if number%2 != 0:
    print("Square of", number, " is ", number ** 2)

    square of all numbers between 10 to 20 except even numbers are:
    Square of 11  is  121
    Square of 13  is  169
    Square of 15  is  225
    Square of 17  is  289
    Square of 19  is  361
```

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.

```python
user_input = int(input("Enter Marks :: "))
marks_list = [65, 75, 2100, 95, 83]

flag = 0

for marks in marks_list:
  if user_input == marks:
    print(marks,"Marks occured at Test", marks_list.index(marks)+1)
    flag = 1

if flag == 0:
```

```
print("Marks Not Found")
```

Enter Marks :: 83
83 Marks occured at Test 5