Task 1

GO_STP_5247

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

```
[7]  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")

     Enter color, fruit or animal name : Green
     Green 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"

```python
Colors = ['Yellow','Green','White','Black']

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

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

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

if m and n in Colors:
    print("Both are Colors")
elif m and n in Fruits:
    print("Both are Fruits")
elif m and n in Animals:
    print("Both are Animals")
else:
    print("They don't belong to same category")
```

```
Enter a name :Tiger
Enter a name :Lion
Both are Animals
```

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

```python
[9] score = int(input("Enter your score :"))

if score < 40 :
    print("Score is low")
```

```
[9]  if score < 40 :
         print("Score is low")
     elif score > 60 :
         print("Score is good")
     else :
         print("Score is normal")

     Enter your score :95
     Score is good
```

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

```
[10] result = ["Pass","Fail","Fail","Pass","Fail","Pass","Pass","Fail","Fail","Fail"]
     count = 0

     for x in result :
         if x == "Pass" :
             count += 1
     print("You passed", count, "times")

     You passed 4 times
```

4. Write a program that prints following shape

```
[4]  rows = 5

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

```
[4]
    for i in range(0,rows):
        for j in range(0,i+1):
            print("*",end = " ")
        print(" ")

    for i in range(rows+1,0,-1):
        for j in range(1,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
```
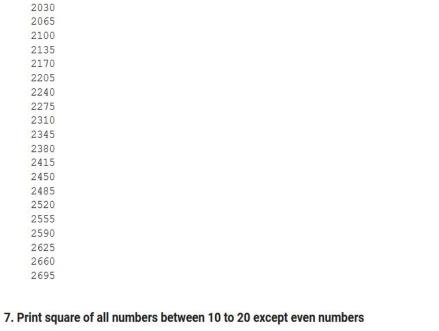
```
[11] flag = 0
```

```python
flag = 0

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")
            flag =1
            break
        elif n == "NO":
            continue

if flag == 0:
    print("Congratulations!! You finished the race")
```

```
Are you tired?NO
Are you tired?YES
You didn't finish 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).

```python
[12] 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
```

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

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

```
[13] for x in range(10,21):
         if x%2==1:
             print(x**2)

     121
     169
     225
     289
     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.

```
[16] marks_list = [65, 75, 2100, 95, 83]
     n = int(input("Enter marks :"))
     if n not in marks_list :
         print("Marks not in list")

     else:
         for x in marks_list:
             if x == n:
                 print("You got",n,"marks in","test",marks_list.index(x)+1)

     Enter marks :65
     You got 65 marks in test 1
```