ASSIGNMENT/TASK 1

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Hint: Python If Condition

> **Indented block**
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> **Indented block**

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

ii. Write a program that asks user to enter two items and it tells you if they both are in same category 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"

(I)ANS.

```
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")
```

```
 Enter color, fruit or animal name : Apple
 Apple is a Fruit
```

(II)ANS>

```
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 :Yellow
 Enter a name :Mango
 They don't belong to same category
```

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:

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

else:

  print(f"{score} is normal mark")
```

```
    Enter your score: 80
    80.0 is good mark
```

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"]

count = 0

for i in result:

  if i == "Pass":

    count += 1

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

```
    You passed 4 times
```

4. Write a program that prints following shape

```
 *

 * *

 * * *

 * * * *

 * * * * *

 * * * *
```

```
 * * *

 * *

 *
```

```
rows = 5

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

```
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")
```

```
    Are you tired?Yes
    Are you tired?No
    Are you tired?No
    Are you tired?Yes
    Are you tired?Yes
    Congratulations!! You 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

```
for i in range(10,21):
    if i % 2 == 0:
        continue
    print(i*i)
```

```
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.

```
test_list = ["Test1","Test2","Test3","Test4","Test5"]
marks_list = [65, 75, 2100, 95, 83]
mark= int(input("Enter the mark: "))
test=-1
for i in range(len(marks_list)):
    if mark == marks_list[i]:
        test = i
        break
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}. Please provide the co
```

```
Enter the mark: 83
You got 83 in Test5
```