

Day2

Goeduhub Technologies

Assignment/Task 1

GO_STP_6027

OLA WAHBA

Question 1-i :

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

```
while True:
    word=input('enter a Color/Fruit/Animal name:')
    colors=['yellow','green','white','black']
    fruits=['apple','papaya','mango','orange']
    animals=['tiger','lion','deer','zebra']
    if word in colors:
        print(word +'in colors')
    elif word in fruits :
        print(word +'in fruits')
    elif word in animals:
        print(word +'in animals')
    elif word=='exit':
        break
    else:
        print('unknown word')
```

```
enter a Color/Fruit/Animal name:green
greenin colors
enter a Color/Fruit/Animal name:hkh
unknown word
enter a Color/Fruit/Animal name:exit
```

▼ Question 1-ii :

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"

```
cities=['Rome','Veniece','Florence','Verona']
city1 =input('city 1 :')
city2 =input('city 2 :')
if city1 and city2 in cities:
    print('{} and {} are in the same country'.format(city1,city2))
else:
    print('{} and {} are not in the same country'.format(city1,city2))

city 1 :Rome
city 2 :Florence
Rome and Florence are in the same country
```

▼ 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

```
grade=int(input('Enter your grade :'))
if grade <= 40 :
    print('the score is low')
elif grade >= 60:
    print('the score is high')
else:
    print('the score is normal')
```

```
Enter your grade :70
the score is high
```

▼ Question 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('Number of Pass={}'.format(count))
```

Number of Pass=4

Other solution

```
result = ["Pass","Fail","Fail","Pass","Fail","Pass","Pass","Fail","Fail","Fail"]
count_pass=result.count('Pass')
print('Number of Pass={}'.format(count_pass))
```

Number of Pass=4

▼ Question 4:

4. Write a program that prints following shape

```
*
```

```
• *
```

```
• *
```

```
•
```

```
for i in range(0,6):
    for j in range(0,i):
        print('*',end='')
    print('')
for x in range(4,0):
    for y in range(x,0):
        print('*',end='')
    print('')
```

```

print( )
for x in range(4,0,-1):
    for y in range(x,0,-1):
        print('*',end='')
    print('')

```

```

*
**
***
****
*****
****
***
**
*

```

▼ 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

```

distance=10
while distance <=50:
    distance +=1
    if distance == 50:
        print('congratulations')
        break
    else:
        answer=input('Are you tired ?')
        if answer=='yes':
            print('you did no t finish the race')
            break
        elif answer=='no':
            continue

```

```

Are you tired ?no
Are you tired ?no
Are you tired ?yes
you did no t finish the race

```

▼ Question 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 number in range(1500,2701):  
    if (number % 7 ==0 and number % 5==0):  
        print(number)  
  
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
```

▼ Question 7:

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

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

121
169
225
289
361

▼ Question 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.

```
marks_list = [65, 75, 2100, 95, 83]
mark=int(input('Enter your mark :'))
if mark in marks_list:
    print(marks_list.index(mark))
```

```
Enter your mark :83
4
```

✓ 35s completed at 2:44 AM

● ✕