# Assignment/Task 1

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Question 1 (Part 1)

```
1 Colors=['Yellow','Green','White','Black']
2 Fruits=['Apple','Papaya','Mango','Orange']
3 Animals=["Tiger","Lion",'Deer','Zebra']
4 a=input("Enter value of colors, fruits or animals ")
5 if a in Colors:
6   print("Input", a , "belongs to colors category")
7 elif a in Fruits:
8     print("Input", a ,"belongs to fruits category")
9 elif a in Animals:
10    print("Input",a, " belongs to animals category")
11 else:
12    print("Input", a , "doesn`t belong to any category")
```

```
Enter value of colors, fruits or animals Orange
Input Orange belongs to fruits category
```

Question 1 (Part 2)

```
1 a=input("Enter value of colors, fruits or animals ")
2 b=input("Enter value of colors, fruits or animals ")
3 if a in Colors and b in Colors:
4   print("Both are colors")
5 elif a in Fruits and b in Fruits:
6     print("Both are Fruits")
7 elif a in Animals and b in Animals:
8     print("Both are Animals")
9 else:
10    print("They don't belong to same category")
```

```
Enter value of colors, fruits or animals Black
Enter value of colors, fruits or animals White
Both are colors
```

Question 2

```
1 a=int(input("Enter value of a: "))
2 if a>40 and a<60:
3   print("Score is normal")
4 if a<40:
5   print("Score is low")
6 else:
7   print("Score is good")
```

```
    Enter value of a: 100
    Score is good
```

## QUESTION 3

```
1 result = ["Pass","Fail","Fail","Pass","Fail","Pass","Pass","Fail","Fail","Fail"]
2 i=0
3 for value in result:
4   if value == "Pass":
5       i += 1
6 print("Number times you passed", i , "\nNumber of times you Failed", len(result)-i)
```

```
    Number times you passed 4
    Number of times you Failed 6
```

## Question 4

```
1 x= int(input("Enter number of lines"))
2 for i in range(x):
3   if(i<= x/2):
4     print("* "*i)
5   if(i>x/2):
6     print("* "*(x-i))
```

```
    Enter number of lines10

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

## Question 5

```
1 for i in range(1,51):
2   if i % 10 ==0 and i <50:
3     a=input("are you tired? ")
4     if a == "yes":
5       print("you didn't finish the race")
6       break
7     elif a=="no":
8       continue
9   elif i == 50:
10     print("you finshed the race")
```
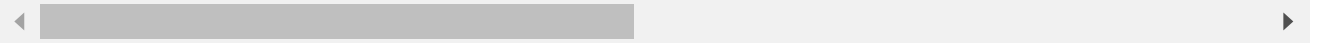
```
    are you tired? no
    are you tired? no
```

```
    are you tired? no
    are you tired? no
    you finshed the race
```

## Question 6

```
1 for i in range(1500,2701):
2   if i % 7 == 0 and i % 5 == 0:
3     print(i, end=" ")
```

```
1505 1540 1575 1610 1645 1680 1715 1750 1785 1820 1855 1890 1925 1960 1995 2030 2065
```

## Question 7

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

```
121
169
225
289
361
```

## Question 8

```
1 marks_list = [65, 75, 2100, 95, 83]
2 a = int(input("Enter Makrs"))
3 if a in marks_list:
4   print(a,"marks scored in test no:", marks_list.index(a)+1)
5 else:
6   print(a, "Marks not present in the Marks list")
```

```
Enter Makrs95
95 marks scored in test no: 4
```