

## 6th Assignment

In [1]:

```
import datetime
```

In [2]:

```
firstDay = int(input("enter day(numeric) " ))
firstMonth = int(input("enter month(numeric) "))
firstYear = int(input("enter year(numeric)"))

secondDay = int(input("enter day(numeric)" ))
secondMonth = int(input("enter month(numeric)"))
secondYear = int(input("enter year(numeric)"))

d1 = datetime.datetime(firstYear, firstMonth, firstDay)
d2 = datetime.datetime(secondYear, secondMonth, secondDay)

print("d1 is greater than d2 : ", d1 > d2)
print("d1 is less than d2 : ", d1 < d2)
print("d1 is not equal to d2 : ", d1 != d2)

enter day(numeric) 2
enter month(numeric) 12
enter year(numeric)2012
enter day(numeric)3
enter month(numeric)12
enter year(numeric)2012
d1 is greater than d2 : False
d1 is less than d2 : True
d1 is not equal to d2 : True
```

In []:

```
t=int(input())
l=[]
s=set()
while(t>0):
    for i in range(0,4):
        i=int(input())
        s.add(i)
        l.append(i)
        if(len(s)==4):
            print("2")
        elif(len(s)==1):
            print("0")
        elif(len(s)==3):
            print("1")
```

```
elif(len(s)==2):
    b=0
    c=l[0]
    for i in range(0,3):
        if(c==l[i+1]):
            b=b+1
    if(b==1):
        print("2")
    else:
        print("1")
s.clear()
l.clear()
t=t-1
```

```
4551
1234
0
3456
0
3457
0
5678
0
2
0
```

In [2]:

```
class Box:
    def length(self):
        print("length is 10cm")
    def breadth(self):
        print("breadth is 20cm")
    def depth(self):
        print("depth is 5cm")

class WeightBox(Box):
    def Weight(self):
        print("Weight is 20gms")

class ColorWeightBox(WeightBox):
    def Color(self):
        print("Color is Red")
```

In [3]:

```
a1 = Box()
a2 = WeightBox()
a3 = ColorWeightBox()
```

In []:

