In [87]:
```
class Box:
    def setBoxDetails(self):
        self.__length = int(input("Enter length: "))
        self.__breadth = int(input("Enter breadth: "))
        self.__depth = int(input("Enter depth: "))

    def printBoxDetails(self):
        print('Length :', self.__length)
        print('Breadth :', self.__breadth)
        print('Depth :', self.__depth)


class WeightBox(Box):
    def setWeightBox(self):
        self.setBoxDetails()
        self.__weight=int(input("Enter Weight: "))
    def printWeightBoxDetails(self):
        self.printBoxDetails()
        print('Weight :', self.__weight)


class ColorWeightBox(WeightBox):
    def ColorWeightBox(self):
        self.setWeightBox()
        self.__color = input("Enter Color ")


    def setColorWeightBoxDetails(self):
        self.ColorWeightBox()

    def printColorWeightBoxDetails(self):
        print("==========ENTERED DETAILS BY THE USER======================")
        self.printWeightBoxDetails()
        print('Color :', self.__color)



box1 = ColorWeightBox()
box1.setColorWeightBoxDetails()
box1.printColorWeightBoxDetails()
```

```
Enter length: 2
Enter breadth: 3
Enter depth: 4
Enter Weight: 5
Enter Color 6
==========ENTERED DETAILS BY THE USER======================
Length : 2
Breadth : 3
Depth : 4
Weight : 5
Color : 6
```

In [ ]:
```
class Distance:
    def GetDistance(self):
        #self.__cm=int(input("Enter CM: "))
        #self.__m=int(input("Enter M: "))
        #self.__km = int(input("Enter KM: "))

        self.__distance = input('Enter distance1')
        list_ = self.__distance.split('km').ignorecase
        self.__km = list_[0].strip()

        list_ = self.__distance.split('m')
        m = list_[1].strip()
        self.__m= m

    def PutDistance(self):
        print(self.__km,self.__m)

    def __add__(self, T):
        R=Distance()
        #R.__cm=self.__cm+T.__cm
        R.__m=int(self.__m+T.__m)
        print(R.__m)
        R.__km = int(self.__km + T.__km)
        #R.__m=R.__m+(R.__cm//100)
        #R.__cm=R.__cm%100
        R.__km=R.__km+(R.__m//1000)
        print(R.__km)
        #R.__m=R.__m%1000

        return R.__km

D1=Distance()
D2=Distance()

print("Enter first distance")
D1.GetDistance()

print("Enter second distance")
D2.GetDistance()

D3=D1+D2
print(D3)
print("The sum of both distance is")
#D3.PutDistance()
```

In [78]:
```
import datetime

# date and time in yyyy/mm/dd hh:mm:ss format
d1 = datetime.datetime(2022, 10, 31)
d2 = datetime.datetime(2022, 10, 2)

print(d1.date() == d2.date()) #True
print(d1.date() < d2.date()) #False
print(d1.date() > d2.date()) #False
```

```
False
False
True
```

dist = int(input("Enter First Number: ")) num2 = int(input("Enter Second Number: "))

print("Enter which operation would you like to perform?") ch = input("Enter any of these char for specific operation +,-,*,/: ")

result = 0 if ch == '+': result = flnum1 + num2 else: print("Input character is not recognized!")

print(num1, ch , num2, ":", result)