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SECTION= K22HN
ROLL NO=51
SUBMITTED TO= DR.NAVNEET MALIK SIR
(PROJECT 16)

```
class Date:
    def __init__(self, date, month, year):
        self.d = date
        self.m = month
        self.y = year
```

```
"""To store number of days in
all months from January to Dec."""
monthDays = [31, 28, 31, 30, 31, 30,
              31, 31, 30, 31, 30, 31]
```

```
"""This function counts number of
leap years before the given date."""
```

```
def countLeapYears(d):

    years = d.y

    """Check if the current year needs
    to be considered for the count
    of leap years or not."""
    if (d.m <= 2):
        years -= 1

    """An year is a leap year if it is a
    multiple of 4, multiple of 400 and
    not a multiple of 100."""
    ans = int(years / 4)
    ans -= int(years / 100)
    ans += int(years / 400)
    return ans
```

```
"""This function returns number of
days between two given dates"""
```

```
def getDifference(dt1, dt2):

    #COUNT TOTAL NUMBER OF DAYS
    #BEFORE FIRST DATE 'dt1'

    #initialize count using years and day
    n1 = dt1.y * 365 + dt1.d

    #Add days for months in given date
    for i in range(0, dt1.m - 1):
        n1 += monthDays[i]
```

```

#Since every leap year is of 366 days,
#Add a day for every leap year
n1 += countLeapYears(dt1)

#SIMILARLY, COUNT TOTAL NUMBER
#OF DAYS BEFORE 'dt2'
n2 = dt2.y * 365 + dt2.d
for i in range(0, dt2.m - 1):
    n2 += monthDays[i]
n2 += countLeapYears(dt2)

"""return difference between
two counts"""
return (n2 - n1)

#Driver Code
dob=input("Enter your DOB as DD/MM/YYYY : ")
dob=[int(i) for i in dob.split("/")]
dob=Date(dob[0],dob[1],dob[2])
PresentDay=input("Enter Present Day as DD/MM/YYYY : ")
PresentDay=[int(i) for i in PresentDay.split("/")]
PresentDay=Date(PresentDay[0],PresentDay[1],PresentDay[2])

#Function call
print("\nThe number of days the person is
alive:",getDifference(dob,PresentDay))

```

#OUTCOMES

1.)

Enter your DOB as DD/MM/YYYY : 25/03/2004

Enter Present Day as DD/MM/YYYY : 29/11/2022

The number of days the person is alive: 6823

2.)

Enter your DOB as DD/MM/YYYY : 29/10/2022

Enter Present Day as DD/MM/YYYY : 29/11/2022

The number of days the person is alive: 31

3.)

Enter your DOB as DD/MM/YYYY : 2/02/2000

Enter Present Day as DD/MM/YYYY : 29/11/2022

The number of days the person is alive: 8336