**PYTHON PROJECT**

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**SECTION – K22HN**

**ROLL – NO.- 50**

**PROJECT - 16**

*# Python3 program two find number of  
# days between two given dates  
  
# A date has day 'd', month  
# 'm' and year 'y'*class Date:  
 def \_\_init\_\_(self, d, m, y):  
 self.d = d  
 self.m = m  
 self.y = y  
  
*# 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/YYYYY : ")  
dob=[int(i) for i in dob.split("/")]  
dob=Date(dob[0],dob[1],dob[2])  
PD=input("Enter Present Day as DD/MM/YYYYY : ")  
PD=[int(i) for i in PD.split("/")]  
PD=Date(PD[0],PD[1],PD[2])  
  
*# Function call*print("\nThe number of days the person is alive:",getDifference(dob, PD))

**OUTCOMES:**

*Enter your DOB as DD/MM/YYYY : 03/12/2003*

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

*The number of days the person is alive: 6936*