DATE DIFFERENCE

AIM :

Design a Python Script to determine the date difference between two given dates in YYYY:MM:DD format.

ALGORITHM :

STEP 1 : Start the process.

STEP 2 : Get the input from the user in the format YYYY:MM:DD.

STEP 3 : Ask to enter the date from users.

STEP 4 : Also imported the Library functions from datetime import datetime, timedelta from dateutil import relativedelta.

STEP 5: By the help of Library functions we can get the difference between two given date.

STEP 6 : Print the result.

STEP 7 : Stop the process.

PROGRAM:

```
from datetime import datetime, timedelta
from dateutil import relativedelta

def differencedateformat(str_d1,str_d2):
    d1 = datetime.strptime(str_d1, "%Y/%m/%d")
    d2 = datetime.strptime(str_d2, "%Y/%m/%d")
    delta = relativedelta.relativedelta(d2, d1)
    return delta

print("Enter the Date format (YYYY/MM/DD)")
print("Enter the starting  date ")
str_d1 = input('Enter Date 1 : ')
```

```
print("Enter the Date format (YYYY/MM/DD)")
print("Enter the ending date ")
str_d2 = input('Enter Date 1 : ')


#find the differnece
delta=differencedateformat(str_d1,str_d2)


print(f'Difference is {delta.days} days')
print(f'Difference is {delta.months} months')
print(f'Difference is {delta.years} years')
```

OUTPUT:

Enter the Date format (YYYY/MM/DD)

Enter the starting date

Enter Date 1 : 2011/05/11

Enter the Date format (YYYY/MM/DD)

Enter the ending date

Enter Date 1 : 2022/05/20

Difference is 11 days

Difference is 0 months

Difference is 11 years

RESULT :

       Thus, the python programme for calculating the date difference between two given Dates has been executed and verified successfully.