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dominguez_Program7.py
2 Program Name:dominguez_program7.py
3 Program Description:This program calculates easter in a gaven year within the range of 1900-2099.
4 Author:Daniel Dominguez
5 Date Created:7/9/19
6 Notes of Interest:none
7 '''
8 import time
9 #Function to print the class signature
10 def classSignature():
11     print("-----")
12     print("Daniel Dominguez")
13     print("CIS110 Program 7")
14     print(time.asctime(time.localtime(time.time())))
15
16 def main():
17     print("This program calculates easter in a given year.\n")
18     year=int(input("Please enter a year between the range of 1900-2099:\n"))
19     month=""
20     brokenYears=[1954,1981,2049,2076]
21     brokenYear=0
22     if year>2099 or year<1900:
23         print("This year is out of range.")
24         classSignature()
25     for i in brokenYears:
26         if i==year:
27             brokenYear=7
28     else:
29         a=year%19
30         b=year%4
31         c=year%7
32         d=(19*a+24)%30
33         e=(2*b+4*c+6*d+5)%7
34
35         if 22+d+e>31:
36             day=(22+d+e)-31-brokenYear
37             month=month+"April"
38             print("Easter in",year,"is on",month,day)
39             classSignature()
40         else:
41             day=(22+d+e)-brokenYear
42             month=month+"March"
43             print("Easter in",year,"is on",month,day)
44             classSignature()
45 main()
46
```

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```
dan@:python3 dominguez_Program7.py
This program calculates easter in a given year.

Please enter a year between the range of 1900-2099:
1899
This year is out of range.
-----
Daniel Dominguez
CIS110 Program 7
Fri Jul 12 11:06:35 2019
Easter in 1899 is on April 3
-----
Daniel Dominguez
CIS110 Program 7
Fri Jul 12 11:06:35 2019
dan@:python3 dominguez_Program7.py
This program calculates easter in a given year.

Please enter a year between the range of 1900-2099:
1981
Easter in 1981 is on April 19
-----
Daniel Dominguez
CIS110 Program 7
Fri Jul 12 11:06:41 2019
dan@:python3 dominguez_Program7.py
This program calculates easter in a given year.

Please enter a year between the range of 1900-2099:
2018
Easter in 2018 is on April 1
-----
Daniel Dominguez
CIS110 Program 7
Fri Jul 12 11:06:45 2019
dan@:python3 dominguez_Program7.py
This program calculates easter in a given year.

Please enter a year between the range of 1900-2099:
2019
Easter in 2019 is on April 21
-----
Daniel Dominguez
CIS110 Program 7
Fri Jul 12 11:06:51 2019
dan@:_
```