

# **Calculating Time**

07 07 2022

## Yagna patel

Batch: 21

Enrollment no.: 21162101020

Subject : ESFP-||

#### **Overview**

This project is made using C++ attributes such as class-object, while loop, and file-handling concepts.

#### Goals

- 1. To find the number of days.
- 2. To see the difference of age between 2 people
- 3. To know days left for your birthday in any specific year.

#### Details about C++ attributes used in the code

- 1. Class: A class in C++ is the building block that leads to Object-Oriented programming. It is a user-defined data type, which holds its own data members and member functions, which can be accessed and used by creating an instance of that class. A C++ class is like a blueprint for an object.
- 2. Object: An Object is an instance of a Class. When a class is defined, no memory is allocated but when it is instantiated (i.e. an object is created) memory is allocated.
- 3. Loops: Loops can execute a block of code as long as a specified condition is reached. Loops are handy because they save time, reduce errors, and they make code more readable.
- 4. File handling: File handling is used for store a data permanently in computer. Using file handling we can store our data in secondary memory (Hard disk).

### Code:

```
#include <iostream>
#include <fstream>
using namespace std;
class times
   int tdd,tmm,tyy,n;
   int dd, mm , yy;
}; //array with every month
   times()
   ofstream fa; //ofstream file to only write in the file
    fa.open("projectc++.txt",ios::trunc|ios::ate|ios::out|ios::in);
   int days = 0, m1 = 0, years = 0, m2 = 0, months = 0, y1 = 0;
```

```
cout << "2 - Difference of age "<<endl;</pre>
cout << "4 - Exit"<<endl;</pre>
cin >> tdd >> tmm >> tyy;
cout << endl <<"Your birthdate : ";</pre>
cin >> dd >> mm >> yy;}
if(n==2){ //case 2
cin >> tdd >> tmm >> tyy;
cin >> dd >> mm >> yy;}
   cout << "your birthdate dd/mm :";</pre>
cin >> tyy;
cin >> dd >> mm >> yy;
```

```
m1 = mdays[tmm] + m1;
       m2 = mdays[mm] + m2;
    y1 = years;
   while(years>3) //finding minimum no. of leap year and adding a day
       years = years - 4;
       days++;
       days = (tdd - dd) + (y1*365) + (months);
       cout << "\nNumber of days lived (approximately) :"<< days<<"</pre>
DAYS"<< endl;
```

```
cout << "\n approximately elder person is :"<< days<<" days</pre>
older";
             cout << "\n approximately :"<< days<<"days left";</pre>
        fa<<days<<" days";</pre>
       fa<<"elder person is : "<<days<<" older";</pre>
    if(n==3){
        fa<<"\nNext birthday!\n"<<"approximately : "<<days<<" left for</pre>
your next birthday";
    fa.close();
```

```
int main()
{
   times obj;
   return 0;
}
```