PROJECT REPORT ON

Survival Duration Calculator

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AIM & OBJECTIVE :

The aim of this code is to create a simple Python program that calculates a person's age in various time units (months, weeks, days, hours, minutes, and seconds) based on their input.

SOFTWARES USED :

Anaconda Navigator : It is a graphical user interface (GUI) for managing software packages and environments which is a distribution of Python for scientific computing and data science.

Jupyter Notebook : Popularly used for python.It allows you to create and run code cells interactively. It's excellent for data analysis, data visualization, and creating data science reports with a mix of code, text, and visualizations.

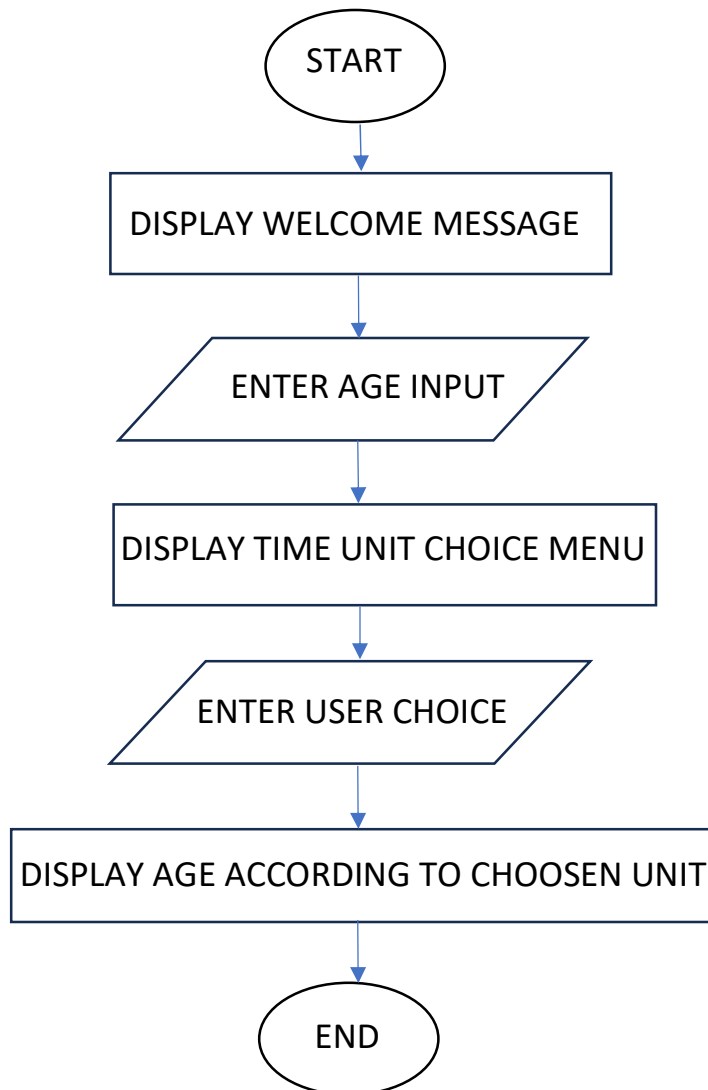Python language : It offers a clear and concise syntax, which makes it easy to write and maintain scripts.

Python provides a wide range of libraries and modules that simplify various scripting tasks, from working with files and data to interacting with web services and databases.

WORKING:

This program provides a menu for the user to choose the time unit in which they want to see their age. Here's a breakdown of what the code does:

1. The program defines a main function as the main entry point.
2. It prints a welcome message to the user.
3. It prompts the user to enter their age using the input function and stores the age in the Age variable.
4. It displays a menu with several options, such as months, weeks, days, hours, minutes, seconds, and the option to exit the program.
5. The code calculates the user's age in various time units (months, weeks, days, hours, minutes, and seconds) based on the user's input.
6. The user is prompted to choose from the menu by entering a number.
7. Depending on the user's choice, the program calculates and displays the age in the selected time unit.
8. If the user selects option 7 (Exit), the program will exit with a message "Exiting..." using sys.exit.

FLOWCHART :

```
                    ┌─────────────┐
                    │    START    │
                    └──────┬──────┘
                           │
                           ▼
          ┌────────────────────────────────┐
          │    DISPLAY WELCOME MESSAGE      │
          └────────────────┬───────────────┘
                           │
                           ▼
          ╱────────────────────────────────╱
         ╱        ENTER AGE INPUT          ╱
        ╱────────────────────────────────╱
                           │
                           ▼
          ┌────────────────────────────────┐
          │  DISPLAY TIME UNIT CHOICE MENU  │
          └────────────────┬───────────────┘
                           │
                           ▼
          ╱────────────────────────────────╱
         ╱        ENTER USER CHOICE        ╱
        ╱────────────────────────────────╱
                           │
                           ▼
     ┌──────────────────────────────────────────┐
     │  DISPLAY AGE ACCORDING TO CHOOSEN UNIT     │
     └──────────────────┬─────────────────────────┘
                           │
                           ▼
                    ┌─────────────┐
                    │     END     │
                    └─────────────┘
```

CONCLUSION:

In summary, the code allows the user to input their age and then choose a time unit to see their age in that unit. It is a simple utility program for age conversion to different time units.