

Demo Project: Write Countdown Application

This guide will help you write a Python application that accepts a goal and a deadline, then calculates and displays the time remaining until that deadline.

Step 1: Install Required Tools

Step 2: Create the Python Script

Step 3: Run the Application

Step 4: Run from the Terminal

Step 1: Install Required Tools

1. **Install Python 3:** Ensure Python 3 is installed on your system. You can check by running: `python3 --version`
2. **Download PyCharm (Community Edition):**
 - Visit [PyCharm Downloads](#) and download the Community Edition.
 - Install PyCharm on your system.

Step 2: Create the Python Script

1. **Open PyCharm** and create a new project.
2. **Create a new Python file** named `time-till-deadline.py`:

Note: We make use of **datetime module** for the time calculation.

```
from datetime import datetime
```

```
user_input = input("enter your goal with a deadline separated by a colon\n")
input_list = user_input.split(":")
```

```
goal = input_list[0]
```

```
deadline = input_list[1]

deadline_date = datetime.strptime(deadline, "%d.%m.%Y")
today_date = datetime.today()
time_till = deadline_date - today_date

hours_till = int(time_till.total_seconds() / 60 / 60)
print(f"Dear user! Time remaining for your goal: {goal} is {hours_till} hours")
```

Step 3: Run the Application

1. Run the script in PyCharm:

- Right-click on `time-till-deadline.py`.
- Click `Run 'time-till-deadline'`.

2. Example Input:

Enter your goal with a deadline separated by a colon
learn python:24.02.2025

3. Example Output:

Dear user! Time remaining for your goal: learn python is 89 hours

4. Result Display:

```
C:\Users\eduar\PycharmProjects\pythonProject\.venv\Scripts\python.exe C:\Us
Enter your goal with a deadline separated by a colon
learn python:24.02.2025
Dear user! Time remaining for your goal: learn python is 89 hours
```

Step 4: Run from the Terminal

1. Open your terminal or command prompt.
2. Navigate to the project directory.
3. Run the script using: `python3 time-till-deadline.py`
4. Example Terminal Output:

```
Enter your goal with a deadline separated by a colon  
learn python:24.02.2025  
Dear user! Time remaining for your goal: learn python is 89 hours
```
