

## **time\_main.cpp**

### **User manual**

Program: time\_main.cpp

- This program asks the user to input the current time in Philadelphia in military format (e.g.: 0900, 1730), and outputs the current time in the some of the other cities.
- To run the program double click on the file time\_main.exe. A console window will appear asking you to enter the time in Philadelphia in military format. Enter the time in Philadelphia in military format and then press return key.
- After pressing the return key, the program will convert and display the time in some of the other cities.

# System Manual

Program: time\_main.cpp

- This program convert the time in Philadelphia and outputs the current time in the some of the other cities.
- This program first ask user to enter the time in Philadelphia in military format. After the user enters the time in Philadelphia, it is stored in the integer variable named "philadelphia".
- The program then add the time difference to the time in philadelphia and stores the result in a variable (name of city in this program). The remainder of the time when divided by 2400 is then stored in the variable of the same city. This is done so that the time can get back to 0000 once it crosses 2400.
- The following expression are used to do so:

```
honorlulu = philadelphia + 1800;  
honorlulu = honorlulu % 2400;
```

```
seattle = philadelphia + 2100;  
seattle = seattle % 2400;
```

```
london = philadelphia + 500;  
london = london % 2400;
```

```
moscow = philadelphia + 800;  
moscow = moscow % 2400;
```

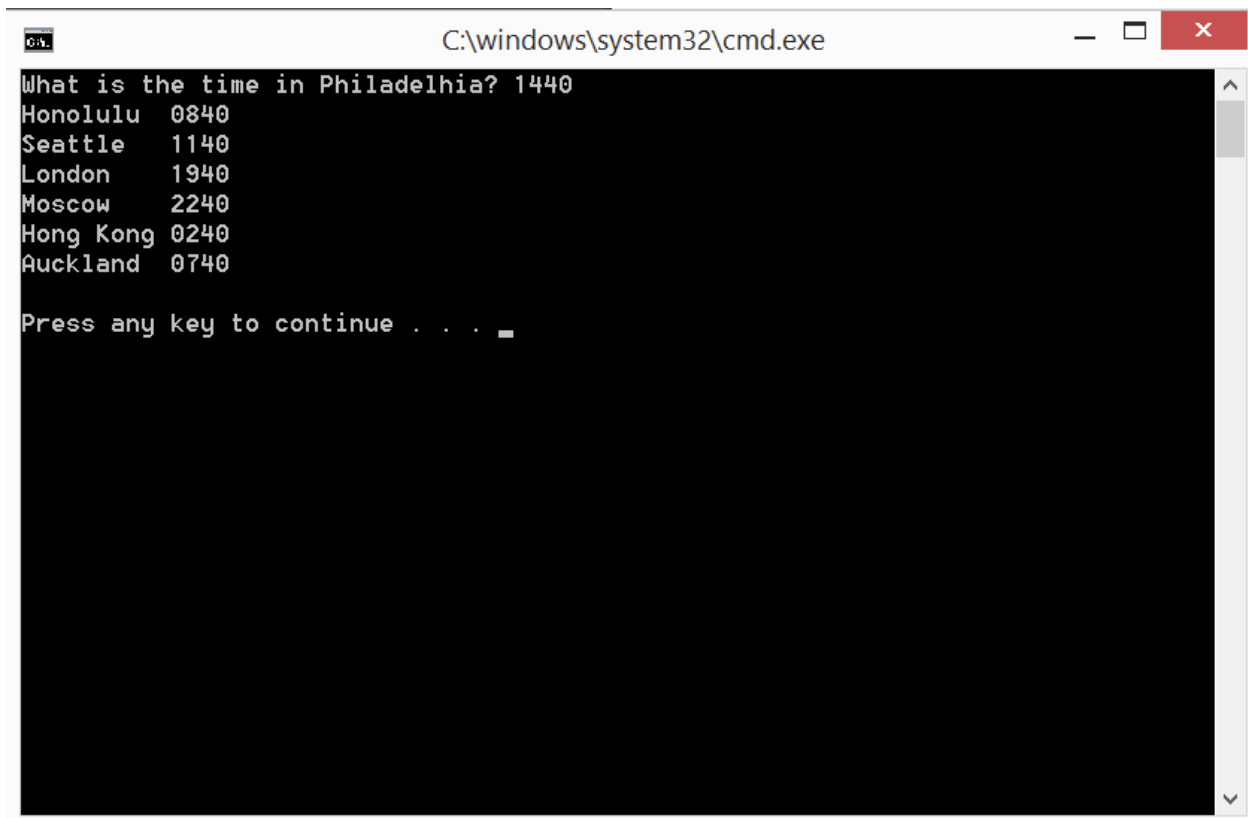
```
hong_kong = philadelphia + 1200;  
hong_kong = hong_kong % 2400;
```

```
auckland = philadelphia + 1700;  
auckland = auckland % 2400;
```

- The variables honorlulu, seattle, london, moscow, hong\_kong and auckland are all of integer data type.

## Test Logs

Program: time\_main.cpp

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\windows\system32\cmd.exe'. The window has standard Windows window controls (minimize, maximize, close). The command prompt displays the following text:

```
What is the time in Philadelphia? 1440  
Honolulu 0840  
Seattle 1140  
London 1940  
Moscow 2240  
Hong Kong 0240  
Auckland 0740  
  
Press any key to continue . . .
```

The text is displayed in a monospaced font on a black background. The cursor is positioned at the end of the 'Press any key to continue . . .' line.