Prior Knowledge Checkpoint 2: Introduction to Programming

Version 1: Visual basic

Task 1: Hello Word.

a) Local and open Visual Studio IDE.
b) Start a new Visual Basic Console Application Project. Name the project CP21HelloWorld
c) Insert code that prints “Hello World by your name”.
d) Run the program correcting any errors
e) Copy and paste your code in to a text file. Save the file as ***CP2 Answer File("Your initials")***
f) Save and close the project

Task 2: Threading in Visual Basic

Below is an example which exemplifies a basic threading setup

```
Imports System.Threading

Module Module1

    Sub Main()
        Console.WriteLine("Main thread starts.")

        For i As Integer = 0 To 10
            Console.WriteLine("Sleep for 2 seconds.")
            Thread.Sleep(2000)
        Next

        Console.WriteLine("Main thread exits.")
        'Application stops for 5 seconds before closing
        Thread.Sleep(5000)
    End Sub

End Module
```

a) Start a new Visual Basic Console Application Project.
b) Name the project CP22ThreadingDemo
c) Add the code above,
d) Run the program correcting any errors
e) Take a screen print of the console while the program is running.
f) Insert the screen print into your answer file.
g) Experiment with different time delays
h) Copy and paste your code in to your answer file
i) Save and close the project
j) Save your answer file in portable document format (PDF) and submit for marking

Prior Knowledge Checkpoint 2: Introduction to Programming

Version 2: Python

Python is a very simple language, and has a very straightforward syntax. It encourages programmers to program without prepared code. The simplest directive in Python is the "print" directive - it simply prints out a line.

Task 1: Hello Word.

a) Open the Python IDE, start a new project and add a new python file
b) Insert a simple line of code that prints “Hello World”
c) Run the program
d) Copy and paste your code in to a text file. Save the file as ***CP2 Answer File("Your initials")***
e) Save and close the project

Task 2: Threading in Python:

Below is an example which exemplifies a basic threading setup

```
#Treading in Python

import time
from threading import Thread

def myfunc(i):
    print ("\nsleeping 5 sec from thread %d" % i)
    time.sleep(5)
    print("\nfinished sleeping from thread %d" % i)

for i in range (10):
    t = Thread(target=myfunc, args=(i,))
    t.start()

#End of code
```

a) Start a new project
b) Name the project CP22ThreadingDemo
c) Add the code above
d) Run the program correcting any errors
e) Take a screen print of the python console while the program is running.
f) Insert the screen print into your answer file.
g) Experiment with different time delays
h) Copy and paste your code in to your answer file
i) Save and close the project
j) Save your answer file in portable document format (PDF) and submit for marking