TASK 1

Differences and Similarities between Python and Go

Differences

1. Typing : Python is typed dynamically while Go is typed statically

2. Concurrency : Go has built in concurrency resulting in faster run time in comparison to Python

3. Memory : Both have automatic garbage collection. But Go’s garbage system is more efficient

4. Syntax : Python has a easy and readable syntax, whereas Go has a more stricter syntax not suitable for beginners

5. Speed : Execution is slower in Python as compared to Go, as Go is complied to machine code

Similarities

1. Both Python and Go have automatic garbage collection, meaning the developer doesn't need to manually manage memory.

2. Both Python and Go are cross-platform languages, allowing programs to run on different operating systems

3. Both are open source

4. Both languages come with extensive standard libraries

5. Both are high-level languages, making development easier and faster.

TASK 2

Comparing the Hello World program using Go and Ocaml, the syntax is as follows

Go:

package main

import "fmt"

func main() {

fmt.Println("Hello, World!")

}

Ocaml

print\_endline "Hello, World!"