

## **Exercise Hello World**

COP4020, 2017 Fall

No due date; this is just a small challenge for your own edification.

**Question 1:**

```
        section .data
msg:    db 'Hello_COP4020!',10
msglen  equ $-msg

        global hello_world

        section .text
hello_world:

        mov rax,1
        mov rdi,1
        mov rsi,msg
        mov rdx,msglen
        syscall

        mov rax,60
        mov rdi,0
        syscall
```

Please circle the language that the above example code is written in:

- Intel X86.64 assembly
- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly

**Question 2:**

```
#!/usr/bin/escript  
  
main(_) ->  
    io:format("Hello_COP4020!\n").
```

Please circle the language that the above example code is written in:

- Intel X86\_64 assembly
- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly

**Question 3:**

```
module Main where

main :: IO ()
main = putStrLn ( "Hello_" ++ "COP4020!_!_" )
```

Please circle the language that the above example code is written in:

- Intel X86\_64 assembly
- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly

**Question 4:**

```
#include <stdio.h>

int main(int argc, char **argv, char **envp)
{
    printf("Hello_COP4020!\n");
}
```

Please circle the language that the above example code is written in:

- Intel X86\_64 assembly
- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly

**Question 5:**

```
#!/usr/bin/gosh  
  
(print "Hello_COP4020!")
```

Please circle the language that the above example code is written in:

- Intel X86\_64 assembly
- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly

**Question 6:**

```
program hello_world(output);  
  
begin  
  WriteLn('Hello_COP4020!!')  
end.
```

Please circle the language that the above example code is written in:

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- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly

**Question 7:**

```
TERM    EQU    19
        ORIG   1000
START   OUT    MSG (TERM)
        HLT
MSG     ALF    "HELLO "
        ALF    " CGS2 "
        ALF    "600  "
        ALF    "      "
        END    START
```

Please circle the language that the above example code is written in:

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