Exercise Hello World

COP4020, 2017 Fall

No due date; this is just a small challenge for your own edification.
Question 1:

```assembly
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:

```erlang
#!/usr/bin/escript
main(_) ->
io:format("Hello\nCOP4020!\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:

```haskell
module Main where

main :: IO ()
main = putStrLn ("Hello\n" ++ "COP4020!\n!\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 4:

```c
#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\nCOP4020!")

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:

```pascal
program hello_world(output);
begin
  WriteLn('Hello\nCOP4020!!')
end.
```

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

- Intel X86_64 assembly
- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly
Question 7:

<table>
<thead>
<tr>
<th>TERM</th>
<th>EQU 19</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORIG</td>
<td>1000</td>
</tr>
<tr>
<td>START</td>
<td>OUT MSG(TERM)</td>
</tr>
<tr>
<td></td>
<td>HLT</td>
</tr>
<tr>
<td>MSG</td>
<td>ALF &quot;HELLO&quot;</td>
</tr>
<tr>
<td></td>
<td>ALF &quot;CGS2&quot;</td>
</tr>
<tr>
<td></td>
<td>ALF &quot;600&quot;</td>
</tr>
<tr>
<td></td>
<td>ALF &quot; &quot;</td>
</tr>
<tr>
<td>END</td>
<td>START</td>
</tr>
</tbody>
</table>

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

- Intel X86_64 assembly
- C
- Erlang
- Haskell
- Pascal
- Scheme
- MIX assembly