SystemC & Behavior Coding

Assignment 1, 2021-10-01

Abstract

Based on templates given, develop two (2) versions of the infamous "Hello World" C program.

Please read carefully. All outputs required are described in the text. Five (5) points will be taken for each bug, missing required output and behavior.

"Hello World" Version 1

Code template

```
# include <stdio.h>
int main(int argc, char *argv[]) {
   /*
      Please add your statements here
   */
   printf("Hello World!\n");
   return(0);
}
```

Description

1. Please add a `printf` statement that prints the name of the executable plus 'says'.
2. For example, if your executable plus its path is named 'run', then execute run will give

   ```
   run says Hello World!
   ```
3. To print a character array, say, `str`, the formatted output statement is

   ```
   printf("%s", str);
   ```

"Hello World" Version 2

Code template

```
# include <stdio.h>
int main(int argc, char *argv[]) {
   printf("Hello World!\n");
   // Please add your loop here
   return(0);

}
```

Description

1. Please add a loop statement that prints all the input variables but the first one, the executable name. Then the program concludes the print with a newline control.
2. For example, if your executable is named 'echo', then execute echo like

   ```
   echo I do not like mosquitoes
   ```
   then the program prints
   ```
   Hello World!
   I do not like mosquitoes
   ```

Please turn in the source codes only. Do not turn in the executable.

Due date
2:00PM, October 8th, 2021

Score weight (towards the final grade)   5%