

SystemC & Behavior Coding

Assignment 1, 2024-09-19

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 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

3:00PM, October 3rd, 2024

Score weight (towards the final grade) 5%