

Below part of a C code is provided. Provide the answers to the following questions.

```
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
void funct1();
void funct2();
int main() {
    printf("\nMain started \n");
    if (fork() == 0)
        funct2();
    else if (fork() == 0)
        funct1();
    printf("\nThis is the End (The Doors) \n");
    exit(EXIT_SUCCESS);
}
void funct1() {
    fork();
    execlp("echo", "echo", "Cheers", "from our world !", (char *) 0);
    perror("execlp");
    exit(EXIT_FAILURE);
}
void funct2() {
    fork();
    printf("\nHi from Funct2");
}
```

```
int main() {  
    printf("\nMain started \n");  
  
    if (fork() == 0)  
        funct2();  
}
```

Run untitled x

/Users/shahlabahmanyar/Projects/w2-programming-assignment-and-report-bahmanyar67/untitled/cmake-build-debug/untitled

Main started

This is the End (The Doors)

Hi from Funct2

This is the End (The Doors)

Hi from Funct2

This is the End (The Doors)

Cheers Cheers from our world !
from our world !

Process finished with exit code 0

How many processes does this program include? [3 marks]

Five

How many processes print the message 'This is the End (The Doors)' ? [3 marks]

Three

What messages will be printed on the screen when this program runs? [4 marks]

Main started

This is the End (The Doors)

Hi from Funct2

This is the End (The Doors)

Hi from Funct2

This is the End (The Doors)

Cheers from our world !

Cheers from our world !