

```
//      Course: CS3820-01 Operating System
//      Name: Sajank, Kefin
//      Assignment: Programming Assignment 3
//      Date assigned: 10/02/17
//      Date due: 10/11/18
//      Date handed in: 10/11/18
//      Remark: This is a program created to show error reporting on failed UNIX system calls.
```

```
#include <iostream>
#include <errno.h>
#include <unistd.h>
```

```
using namespace std;
```

```
int main()
{
    char hname[256];
    //Declaration of Array to hold hostname

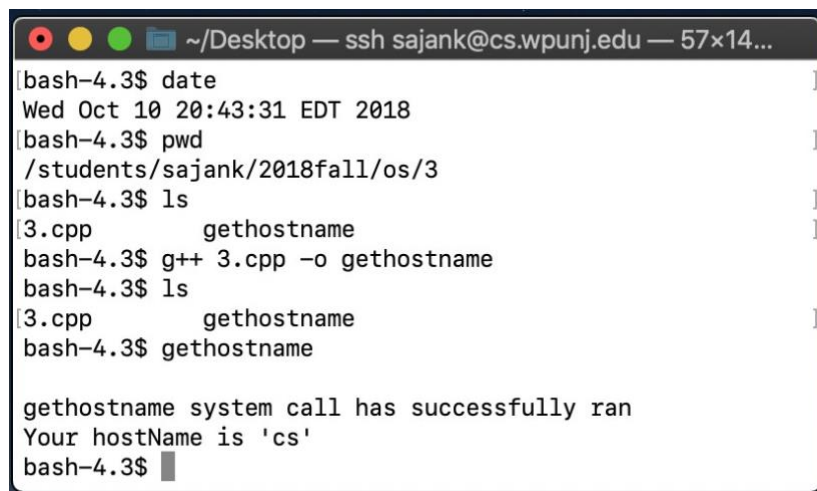
    int hn= gethostname(hname, 255);
    //making system call and saving any errors

    if(hn == -1) //If error is found
    {
        cout<<"error = " << errno<<endl;
        perror("main");
        exit(1);
    }

    cout<<"\nghostname system call has successfully ran\n";
    cout<<"Your hostName is '"<<hname<<"'\n";
    //If there were no error(s), name is shown

    exit(0);
}
```

```
//Output:
```



A terminal window titled '~ / Desktop — ssh sajank@cs.wpunj.edu — 57x14...' showing the execution of a C++ program. The user enters commands: 'date' (output: 'Wed Oct 10 20:43:31 EDT 2018'), 'pwd' (output: '/students/sajank/2018fall/os/3'), 'ls' (output: '3.cpp'), 'g++ 3.cpp -o gethostname', 'ls' (output: '3.cpp'), and 'gethostname'. The program's output is displayed: 'ghostname system call has successfully ran' and 'Your hostName is 'cs''. The prompt 'bash-4.3\$' is visible at the bottom.

```
[bash-4.3$ date
Wed Oct 10 20:43:31 EDT 2018
[bash-4.3$ pwd
/students/sajank/2018fall/os/3
[bash-4.3$ ls
3.cpp
bash-4.3$ g++ 3.cpp -o gethostname
bash-4.3$ ls
3.cpp
bash-4.3$ gethostname

ghostname system call has successfully ran
Your hostName is 'cs'
bash-4.3$
```