Assignment2 Michael Vanderbilt Matthew Chan

Code

```
🖳 New Tab 📗 Split View 🗸
9 #include<stdlib.h>
10 #include<iostream>
11
12 using namespace std;
13
14 void address_translation(unsigned int address) {
15
         cout<<"The address "<<address<<" contains"<<"\n";</pre>
          cout<<"page number = "<<address/4096<<"\n";</pre>
16
17
           cout<<"offset = "<<address%4096<<"\n";</pre>
19
20
21 int main (int argc, char* argv[]) {
22 unsigned int address = stoi(argv[1]);
23 address_translation(address);
24 return 0;
25 }
```

Sample Run

Analysis

- 1. Program is to take the virtual address and convert to the actual physical address
- 2. Code takes the virtual addres number
 - (a) Code uses the paging system ie page is 4096 bytes
 - (b) In the sample run 19986 bytes is divided by 4096 with an integer result of 4
 - (c) Thus the page number is 4
 - (d) The remainder of 19986 by 4096 provides the offset of direct location on the page