

```
/*
Author: Xing Tao Shi
Course: CSCI-135
Instructor: Maryash
Assignment: HW4.2
```

This program prompts the user for a word and then prints it out in reverse.

```
*/
```

```
#include <iostream>
using namespace std;
```

```
int main()
{
    cout << "Enter a word: " << endl;
```

```
/* Implement this pseudocode:
```

```
    s = Read user input
```

```
    r = ""
```

```
    i = 0
```

```
    while i < length of s
```

```
        c = ith character of s
```

```
        r = c + r
```

```
        i++
```

```
    Print r
```

```
*/
```

```
string s = ""; //user input
```

```
cin >> s;
```

```
string c = ""; //instancing variables
```

```
string r = "";
```

```
int i = 0;
```

```
while (i < s.length()) { //reversing
```

```
    c = s.at(i);
```

```
    r = c + r;
```

```
    i++;
```

```
}
```

```
cout << r << endl; //printing out
```

```
return 0;
```

```
}
```

```
/*
```

This program prompts the user for a positive integer and then prints the reverse of it.

```
*/
```

```
#include <iostream>
using namespace std;
```

```
int main()
```

```

{
    cout << "Enter a positive integer: " << endl; // user input
    int n;
    cin >> n;

    // TODO: Print the digits of n in reverse

    int retVal = 0;
    int digit = 0;

    while (n > 0) // reversing
    {
        digit = n % 10;
        retVal *= 10;
        retVal += digit;
        n = n / 10;
    }

    cout << retVal << endl;

    return 0;
}

/*
This program prompts the user for an integer and then prints the reverse of it.
*/

#include <iostream>
using namespace std;

int main()
{
    cout << "Enter an integer: " << endl; //user input
    int n;
    cin >> n;

    // TODO: Print the digits of n in reverse

    int retVal = 0;
    int digit = 0;

    if (n > 0) { //positive
        while (n > 0) // reversing
        {
            digit = n % 10;
            retVal *= 10;
            retVal += digit;
            n = n / 10;
        }
    }
    else { //negative
        while (n < 0) // reversing
        {

```

```
        digit = n % 10;
        retVal *= 10;
        retVal += digit;
        n = n / 10;
    }
    //retVal *= -1;
}

cout << retVal << endl;

return 0;
}
```