

Assignment 7

24 October 2012

Due Monday 22 October at 1am

This is a looping program to add or multiply a list of numbers typed by the user. The user can enter a *string* input for their choice and we will check that they select either 'add' or 'multiply'.

- In the first sample run, the user chooses to add numbers.

```
Would you like to add or multiply? add
Enter one number per line, 0 to stop:
3
5
15
1
8
0
Thank you. The sum is 32.
```

- In this example, the user multiplies. Note that the final zero cannot contribute to the product, or else the answer would always be zero.

```
Would you like to add or multiply? multiply
Enter one number per line, 0 to stop:
2
3
1
6
0
Thank you. The product is 36.
```

- In this example, the user tries to enter something other than 'add' or 'multiply', and gets an error message.

```
Would you like to add or multiply? subtract
Sorry, I don't know how to subtract.
Would you like to add or multiply? logarithm
Sorry, I don't know how to logarithm.
Would you like to add or multiply? shut up!
Sorry, I don't know how to shut up!.
Would you like to add or multiply? add
Enter one number per line, 0 to stop:
1
```

2

3

0

Thank you. The product is 6.

You may want to practice `break` to snap out of a loop from the middle. I think it's most helpful in the loop that does error checking.

In order to read a *string* input from the user:

```
cout << "What's for lunch? ";  
string choice;  
getline(cin, choice);
```

and then you can compare the string to literal strings using `==`:

```
if(choice == "pizza")  
{  
    // etc...  
}
```