## Assignment 1 – ATM Withdrawal Due midnight 2/9/2018

Topics Covered: console input & output, loops and conditional statements

Functional Requirements:	
	You work for a progressive bank that is installing ATMs which will deliver withdrawals in multiple bill denominations: \$50, \$20, \$10, \$5 and \$1
	Write a program that determines number of bills to return with a withdrawal request.
	Your program should start by requesting the user to enter the amount to withdrawn
	The amount entered should be validated
	<ul><li>Withdraws must be &gt; \$1.00</li></ul>
	<ul><li>Withdrawals cannot be &gt; \$300.00</li></ul>
	If the Amount is not valid then the user will be asked to re-enter until a valid number is entered.
	After a valid number is entered the # of each bill type should be determined and presented, optimizing for the fewest number of bills
	<ul> <li>E.g. Withdrawal of \$200 should be 4 x \$50.00 (versus 20 x \$10 bills)</li> </ul>
	- # \$50.00 bills
	- #\$20.00 bills
	- #\$10.00 bills
	- #\$5.00 bills
	- #\$1.00 bills
	Only show the amount if the number of bills is > 0
	e.g do not show: 0 \$50.00 bills
	After presenting the change, the program should allow the use to enter another transaction
	The program should continue accepting input and making change until the user enters '0' to quit.

<u>No</u>	n Functional Requirements
	Your program should be properly commented, clearly indicating what the program is doing
	Your program should employ the use at least 2 loops (you choose: for or while or do-while)
	one that loops until a valid input is entered
	one that loops to allow for additional withdrawals
	DO not use GOTOs
<u>Sul</u>	bmission Requirements
	You should upload your program to your github account in a repository called: INFO450ATM
	Turn in your project on blackboard by uploading the URL to your github repository

NOTE: you may work together helping each other out, but you MUST turn in your own work.

## C:\windows\system32\cmd.exe

```
Please enter withdrawal amount --> 500
Sorry the max amount you can withdraw is $300.00.
Please enter withdrawal amount --> 0
Sorry the min amount you can withdraw $1.00.
Please enter withdrawal amount --> 223
vou have 4 $50.00 bills
you have 1 $20.00 bills
you have 3 $1.00 bills
another withdrawal? enter Y to continue
Please enter withdrawal amount --> 186
vou have 3 $50.00 bills
you have 1 $20.00 bills
you have 1 $10.00 bills
you have 1 $5.00 bills
you have 1 $1.00 bills
another withdrawal? enter Y to continue
Please enter withdrawal amount --> 154
vou have 3 $50.00 bills
you have 4 $1.00 bills
another withdrawal? enter Y to continue
Press any key to continue . . .
```