



## CMST386: Web Site Design II

### Assignment 4: JavaScript Programming

#### Summary:

This assignment requires you to write a Program Design Document to include:

1. Written specifications
2. Algorithm design with flowchart or pseudo code description of program process
3. Known test data

Program Implementation needs to be demonstrated by creating a JavaScript program.

You will need to print out and include:

1. Source code from the text editor
2. Results for at least two runs using your known test data. You must test each branch of your selection structure using the test data.

If submitting using paper, create a cover sheet for this assignment to include your name, class, date submitted, and a title. This assignment is due December 8.

Provide a link from the home page for this assignment.

#### Casino Chip Counting Program

The Dynasty Casino <http://www.tinian-dynasty.com> in Tinian has decided to automate the chip counting using a computer program. They have contracted with you to create a chip counting program that will assist in cashing out client's chips. They have agreed to fly you over for an all expense paid week to observe the casino in action.

You enjoy your time in Tinian, while doing your Design Phase. You have agreed that you will not leave Tinian until all parties agree with your Program Specifications and Design. Once the design is approved you will enter the Implementation Phase and return home to do your coding.

The program will assist the cashier by calculating the value of chips based on their quantity. You observe that the general sequence of events at the cashier window is as follows:

The customer submits to the cashier all chips to cash out. Chips are counted and the total sum is calculated based on the following values:

- Black = \$5
- Blue = \$20
- Red = \$50
- Green = \$100
- Gold = \$500

For this program create a form GUI (graphical user interface) to do the data input, processing, and output. The summary information should include cashier number, the quantity and value of each chip color, and the total number of chips and total value of all chips. This summary web page will be printed out as a receipt for the customer. Name the file **casino.html**