Instructor: Professor Neena Kaushik

Office hours (in AT 203): Mondays: 3:15 to 4:15 p.m.
Wednesdays: 10 to 11 a.m.
and by appointment

Email: kaushikneena@fhda.edu

Course website: http://www.deanza.edu/faculty/kaushikneena

Lecture: 12:30 - 2:10 p.m. in AT 312 (1:30 – 1:35 p.m. break) (Mondays & Wednesdays)
Lab: 2:15 - 2:40 p.m. in AT 312 (Mondays & Wednesdays)

Assignment due date: November 26

<table>
<thead>
<tr>
<th>Part</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program works correctly</td>
<td>25</td>
</tr>
<tr>
<td><em>If program does not work as per specifications, you may get 0 points</em></td>
<td></td>
</tr>
<tr>
<td>Output with three test cases</td>
<td>25</td>
</tr>
<tr>
<td>Comments and variable names properly used</td>
<td>20</td>
</tr>
<tr>
<td>Header</td>
<td>20</td>
</tr>
<tr>
<td>Program and output sheets are stapled properly</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
</tr>
</tbody>
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1) Please submit your program in hard copy along with the output
2) Please use comments in your program. Please name the variables so that they indicate what the variable does in the program. A maximum of 20 points will be deducted if variable names and comments are not used properly.
3) Please include the following header in your program. A maximum 20 points will be deducted for the header not being present in the program.

/************************************************************/
** Program written by: Your name
** Inputs: List the inputs to the program
** Outputs: List the outputs from the program
** What the program does: Say what the program does
************************************************************/
ASSIGNMENT 9

Write a C program which reads 10 elements via keyboard input and stores them in an array. The numbers can be integers from 0 to 4. The program prints the frequency of each element. Here is the code skeleton

```c
#define SIZE 10
#define FREQ_SIZE 5

void read_element(int my_array[SIZE]);
void cal_freq(int my_array[SIZE], int freq_array[FREQ_SIZE]);
void print_freq(int freq_array[FREQ_SIZE]);

int main(void)
{
    int el_array[SIZE];
    int my_freq_array[FREQ_SIZE];

    read_element(el_array);
    cal_freq(el_array, my_freq_array);
    print_freq(my_freq_array);
}

EXAMPLE
INPUT
0 1 1 2 4 1 2 4 1 3
OUTPUT
NUMBER FREQUENCY
0 1
1 4
2 2
3 1
4 2
```