**Task 1: Separating Odd and Even Elements in an Array**

*Objective: Create two arrays of 10 random elements each. Loop through the arrays and separate the odd and even numbers.*

**Task 2: Separating Negative Elements in an Array**

*Objective: Create an array of 10 elements, each ranging from 0 to 255. Loop through the array and isolate the negative elements.*

**Task 3: Bitwise Masking to Extract Values**

*Objective: Given the hexadecimal word 8575h, extract specific values using bitwise masking:*

*5 in AL, 75 in AH, 0575 in BX, and 8505 in CX.*

**Task 4: Finding the Smallest Element in an Array**

*Objective: Consider an array of 10 elements. Loop through the array and determine the smallest element. Store the result in AX.*

**Task 5: Finding the Highest Element in an Array**

*Objective: Consider an array of 10 elements. Loop through the array and identify the highest element. Store the result in AX.*

**Submission Format:**Comment all the code files well enough and add explanation on how the flags are set.

Final Submission:  
You will submit a zip, inside it will be all of your tasks.   
The final zip submission format is: i22-1234\_LAB6.zip

**(Note: Submissions not following the format will not be graded)**