OOP LAB #06
LAB TASK (Dynamic Arrays)

1. Write a program that prompts the user to input a string and outputs the string in uppercase letters. (Use a character array to store the string).Redo this task using dynamic arrays.

2. The history teacher at your school needs help in grading a True/False test. The students' IDs and test answers are stored in a file. The first entry in the file contains answers to the test in the form:
   TFFTFFTTTTFFTFTFTT
   Every other entry in the file is the student ID, followed by a blank, followed by the student's responses. For example, the entry: ABC54301 TFTFTFTT TFTFTFFTTFT indicates that the student ID is ABC54301 and the answer to question 1 is True, the answer to question 2 is False, and so on. This student did not answer question 9. The exam has 20 questions, and the class has more than 150 students. Each correct answer is awarded two points, each wrong answer gets one point deducted, and no answer gets zero points. Write a program that processes the test data. The output should be the student's ID, followed by the answers, followed by the test score, followed by the test grade. Assume the following grade scale: 90%–100%, A; 80%–89.99%, B; 70%–79.99%, C; 60%–69.99%, D; and 0%–59.99%, F. Redo this task using dynamic arrays.

3. Write a program that allows the user to enter the last names of five candidates in a local election and the number of votes received by each candidate. The program should then output each candidate's name, the number of votes received, and the percentage of the total votes received by the candidate. Redo this task using dynamic arrays.
   Your program should also output the winner of the election. A sample output is: output should be on console and file both

Candidate	Votes Received	% of Total Votes
Johnson	5000	25.91
Miller	4000	20.73
Duffy	6000	31.09
Robinson	2500	12.95
Ashtony	1800	9.33
Total	19300	

   The Winner of the Election is Duffy.