4. Write a program that reads a file consisting of students' test scores in the range `0-200`. It should then determine the number of students having scores in each of the following ranges: `0-24, 25-49, 50-74, 75-99, 100-124, 125-149, 150-174,` and `175-200`. Output the score ranges and the number of students. (Run your program with the following input data: `76, 89, 150, 135, 200, 76, 12, 100, 150, 28, 178, 189, 167, 200, 175, 150, 87, 99, 129, 149, 176, 200, 87, 35, 157, 189.`)

5. 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.)

6. 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:

   ```
   TFFTFFTTTTFFTFTFTFTT
   ```

   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`.

7. 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. Your program should also output the winner of the election. A sample output is:

   ```
   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.
   ```