

**Mr. Giansante**

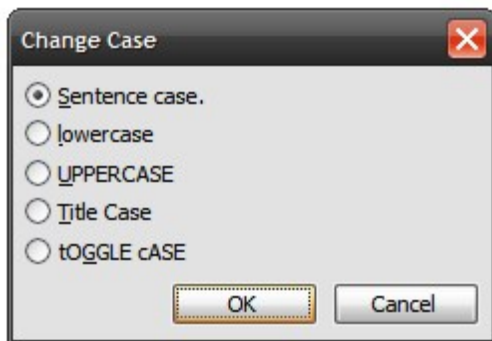


**C++ Programming**  
**Change Case**

**August 2018**

# Change Case

Create a C++ program that acts as Microsoft Word's **Change Case** function.



Your program should prompt the user to enter a sentence. Use `getline()` for this purpose.

The program should then display all five possible outcomes as illustrated below:

```
C:\Users\philg\Desktop\Change Case\Change Case.exe
Original:   hey, YOU! what are you doing? stop doing THAT!
Lowercase: hey, you! what are you doing? stop doing that!
Uppercase: HEY, YOU! WHAT ARE YOU DOING? STOP DOING THAT!
Toggle case: HEY, you! WHAT ARE YOU DOING? STOP DOING that!
Title case: Hey, You! What Are You Doing? Stop Doing That!
Sentence case: Hey, you! What are you doing? Stop doing that!

-----
Process exited after 0.09899 seconds with return value 0
Press any key to continue . . .
```

# Change Case



## Learning Outcomes

### Programming Concepts and Skills

- A1. demonstrate the ability to use different data types, including one-dimensional arrays, in computer programs
- A2. demonstrate the ability to use control structures and simple algorithms in computer programs
- A3. demonstrate the ability to use subprograms within computer programs
- A4. use proper code maintenance techniques and conventions when creating computer programs

### Software Development

- B1. use a variety of problem-solving strategies to solve different types of problems independently and as part of a team
- B2. design software solutions to meet a variety of challenges
- B3. design algorithms according to specifications
- B4. apply a software development life-cycle model to a software development project

Please fill out all the information in this column using a pen before getting this assignment marked.

\_\_\_\_\_  
Name

\_\_\_\_\_                      \_\_\_\_\_  
Date                                      Class

## Academic Honesty

The work I am submitting is completely my own creation and has not been copied from anyone else's work. If I have received help on this project, the names of those who have assisted are listed below.

\_\_\_\_\_  
Signature

## Pre-Marking

The following people have pre-marked this assignment:  
(minimum of two)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## User Interface

- Appropriate Title, Author Information, etc.
- Efficient and Esthetically-Pleasing User Interface
- Spelling and Grammar are correct

## Code / Programming Style

- Variables are declared and logically named
- Code is commented where appropriate
- Code is indented and spaced to show structure
- Code is efficient

## Work Ethic / Problem Solving Skills

- Problem Solving Skills are demonstrated
- Makes Productive Use of Time
- Only Seeks Help when Necessary

## Program-Specific Criteria

- User can enter sentence including spaces
- Conversion to Lowercase works
- Conversion to Uppercase works
- Conversion to Title case works
- Conversion to Sentence case works
- Conversion to Toggle case works

## Teacher Comments

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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- Level 1 - Limited ability to meet standard and limited effectiveness
- Level 2 - Some ability demonstrated and moderately effective
- Level 3 - Considerable ability demonstrated, considerable clarity or accuracy
- Level 4 - Thorough, high degree of skill demonstrated, insightful, highly accurate

## Level