

```
Script started on 2025-07-22 16:10:30-05:00 [TERM="xterm" TTY="/dev/pts/1" COLUMNS=
kn55307@ares:~/Portfolio 3/pig latin project$ pwd
```

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/home/students/kn55307/Portfolio 3/pig latin project
kn55307@ares:~/Portfolio 3/pig latin project$ cat piglatin.info
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CSC121-001
Pig Latin Lab
Level 6:
    Level 6: Base Level
```

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This program allows users to input a word or sentence and have it
translated to pig latin.
kn55307@ares:~/Portfolio 3/pig latin project$ show-code piglatin.cpp
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piglatin.cpp:

```
1  #include <iostream>
2  #include <string>
3
4  using namespace std;
5
6  bool isVowel(char c) {
7      c = tolower(c);
8      return (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');
9  }
10
11 bool isConsonant(char c) {
12     c = tolower(c);
13     return (c >= 'a' && c <= 'z' && !isVowel(c));
14 }
15
16 string toPigLatin(const string& enteredWord) {
17     const string punct = "?:;.!'\",`~@#$$%^&*()-_+=|\\}{[/><";
18     if (enteredWord.empty()) {return enteredWord;}
19
20     string pigLatinWord;
21     string word = "";
22
23     for (char c : enteredWord) {
24         word += tolower(c);
25     }
26
27     // Cases
28     // Word starts with "qu"
29     if (word.substr(0,2) == "qu"){
30         pigLatinWord = word.substr(2) + "quay";
31     } else if (isConsonant(word[0]) && isConsonant(word[1]) &&
32               isConsonant(word[2])) {
33         // Three consonants at the start
```

```
34         pigLatinWord = word.substr(3) + word.substr(0, 3) + "ay";
35     } else if (isConsonant(word[0]) && isConsonant(word[1])) {
36         // Two consonants at the start
37         pigLatinWord = word.substr(2) + word.substr(0, 2) + "ay";
38     } else if (isConsonant(word[0])) {
39         // One consonant at the start
40         pigLatinWord = word.substr(1) + word[0] + "ay";
41     } else if (isVowel(word[0])) {
42         // Starts with a vowel
43         pigLatinWord = word + "yay";
44     } else {
45         // All other cases
46         pigLatinWord = word.substr(1) + word[0] + "ay";
47     }
48
49     // fix punctuation
50     for (int i = 0; i < pigLatinWord.size(); i++) {
51         if (punct.find(pigLatinWord[i]) != string::npos) {
52             pigLatinWord += pigLatinWord[i];
53             pigLatinWord.erase(i, 1);
54         }
55     }
56
57     return pigLatinWord;
58 }
59
60
61 string convertSentenceToPigLatin(const string& sentence) {
62     string pigLatinSentence;
63     size_t start = 0;
64     size_t end = sentence.find(' ', start);
65
66     while (end != string::npos) {
67         pigLatinSentence += toPigLatin(
68             sentence.substr(start, end - start)) + " ";
69         start = end + 1;
70         end = sentence.find(' ', start);
71     }
72     pigLatinSentence += toPigLatin(sentence.substr(start)); // last word
73
74     // Capitalize first letter
75     pigLatinSentence[0] = static_cast<char>(toupper(pigLatinSentence[0]));
76
77     return pigLatinSentence;
78 }
79
80
81 int main(){
82     bool running = true;
83     while (running){
84         cout << "Would you like to use this program? (y/n) ";
85         string choice;
86         cin >> choice;
87         cin.ignore(); // Clear the newline character from the input buffer
```

```

88
89     if (choice[0] == 'y')
90     {
91         cout << "Enter a sentence to convert to Pig Latin: ";
92         string sentence;
93         getline(cin, sentence);
94         cout << "Pig Latin: " << convertSentenceToPigLatin(sentence) << endl;
95     } else {
96         running = false;
97         cout << "Exiting!" << endl;
98     }
99
100
101 }
102
103
104     return 0;
105 }

```

kn55307@ares:~/Portfolio 3/pig latin project\$ CPP piglatin

```

piglatin.cpp***
.piglatin.cpp: In function 'bool
isVowel(char)':
piglatin.cpp:7:16: warning: conversion
from 'int' to 'char' may change
value [-Wconversion]
   7 |         c = tolower(c);
     |         ~~~~~^~~
piglatin.cpp: In function 'bool
isConsonant(char)':
piglatin.cpp:12:16: warning: conversion
from 'int' to 'char' may change
value [-Wconversion]
   12 |         c = tolower(c);
     |         ~~~~~^~~
piglatin.cpp: In function
'std::string toPigLatin(const
std::string&)':
piglatin.cpp:24:24: warning: conversion
from 'int' to 'char' may change
value [-Wconversion]
   24 |         word += tolower(c);
     |         ~~~~~^~~
piglatin.cpp:50:23: warning: comparison
of integer expressions of different signedness: 'int'
and 'std::__cxx11::basic_string<char>::size_type'
{aka 'long unsigned int'}
[-Wsign-compare]
   50 |         for (int i = 0; i < pigLatinWord.size();
     |         ~~~~~^~~~~~

```

kn55307@ares:~/Portfolio 3/pig latin project\$./piglatin.out

```

Would you like to use this program? (y/n) y
Enter a sentence to convert to Pig Latin: happy
Pig Latin: Appyhay
Would you like to use this program? (y/n) y
Enter a sentence to convert to Pig Latin: This is the winter of our discontent!
Pig Latin: Isthay isyay ethay interway ofyay ouryay iscontentday!
Would you like to use this program? (y/n) y
Enter a sentence to convert to Pig Latin: The rancid dogs of war move into our shal
Pig Latin: Ethay ancidray ogsday ofyay arway ovemay intoyay ouryay allowshay avesg!
Would you like to use this program? (y/n) y
Enter a sentence to convert to Pig Latin: Gilmore!
Pig Latin: Ilmoregay!
Would you like to use this program? (y/n) n
Exiting!
kn55307@ares:~/Portfolio 3/pig latin project$ exit

```

exit

Script done on 2025-07-22 16:11:29-05:00 [COMMAND_EXIT_CODE="0"]