# Lab 4-1

## Problem:

Translate words from a file into pig latin.

## Source File:

/\*

Problem: Translate words from a file into pig latin.

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February 3rd, 2014

Inputs: File from user

Outputs: Words now in pig latin.

\*/

#include <iostream>

#include <fstream>

#include <string>

using namespace std;

void analyze(string input,string &output);

void consonant(string input,string &output);

void vowel(string input,string &output);

int main()

{

/\*Calls analyze and sends filled input string and empty output string.

Prints out output strings once filled.\*/

string input;

string output;

char destination[128];

cout<<"Enter the file path of the desired file to convert to Pig Latin: ";

cin.getline(destination,128);

ifstream file(destination);

if(!file.is\_open())

{

cout<<"Error: The file "<<destination<<" failed to open correctly. Quitting program.";

exit(-1);

}

cout<<endl<<endl;

while(!file.eof())

{

getline(file,input,' ');

analyze(input,output);

cout<<output<<" ";

}

cout<<endl<<endl;

return 0;

}

void analyze(string input,string &output)

{

/\*

If string starts with vowel, it is sent to vowel().

If string starts with consonant, it is sent to consonant().

\*/

if(input[0]=='a'||input[0]=='e'||input[0]=='i'||input[0]=='o'||input[0]=='u'||input[0]=='A'||input[0]=='E'||input[0]=='I'||input[0]=='O'||input[0]=='U')

vowel(input,output);

else

consonant(input,output);

}

void consonant(string input,string &output)

{

/\*

Takes input string, moves all characters after the first up one position, moves first character to the end, appends ‘ay’

\*/

int length;

length=input.size();

output=input;

for(int i=1;i<length;i++)

output[i-1]=input[i];

output[length-1]=input[0];

output=output+"ay";

}

void vowel(string input,string &output)

{

/\*

Takes input string and appends ‘way’

\*/

output=input;

output=output+"way";

}

## Input File:

english always looks very odd and unintuitive in pig latin

## Sample Run:

Enter the file path of the desired file to convert to Pig Latin: C:\Users\naroa\

Desktop\TextFile2.txt

englishway alwaysway ookslay eryvay oddway andway unintuitiveway inway igpay ati

nlay

Press any key to continue . . .