#include <iostream.h>

#include <stdlib.h>

#include <string.h>

#include <conio.h>

const int MAXLENGTH=80;

const int MAX\_TRIES=5;

const int MAXROW=7;

int letterFill (char, char[], char[]);

void initUnknown (char[], char[]);

int main ()

{

char unknown [MAXLENGTH];

char letter;

int num\_of\_wrong\_guesses=0;

char word[MAXLENGTH];

clrscr();

char words[][MAXLENGTH] =

{

"india",

"cuba",

"uae",

"australia",

"bangladesh",

"england",

"ireland",

"afganisthan",

"pakisthan",

"scotland"

};

//choose and copy a word from array of words randomly

randomize();

int n=random(10);

strcpy(word,words[n]);

// Initialize the secret word with the \* character.

initUnknown(word, unknown);

// welcome the user

cout << "\n\nWelcome to hangman...Guess a country Name";

cout << "\n\nEach letter is represented by a star.";

cout << "\n\nYou have to type only one letter in one try";

cout << "\n\nYou have " << MAX\_TRIES << " tries to try and guess the word.";

cout << "\n~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~";

// Loop until the guesses are used up

while (num\_of\_wrong\_guesses < MAX\_TRIES)

{

cout << "\n\n" << unknown;

cout << "\n\nGuess a letter: ";

cin >> letter;

// Fill secret word with letter if the guess is correct,

// otherwise increment the number of wrong guesses.

if (letterFill(letter, word, unknown)==0)

{

cout << endl << "Whoops! That letter isn't in there!" << endl;

num\_of\_wrong\_guesses++;

}

else

{

cout << endl << "You found a letter! Isn't that exciting!" << endl;

}

// Tell user how many guesses has left.

cout << "You have " << MAX\_TRIES - num\_of\_wrong\_guesses;

cout << " guesses left." << endl;

// Check if they guessed the word.

if (strcmp(word, unknown) == 0)

{

cout << word << endl;

cout << "Yeah! You got it!";

break;

}

}

if(num\_of\_wrong\_guesses == MAX\_TRIES)

{

cout << "\nSorry, you lose...you've been hanged." << endl;

cout << "The word was : " << word << endl;

}

getch();

return 0;

}

/\* Take a one character guess and the secret word, and fill in the

unfinished guessword. Returns number of characters matched.

Also, returns zero if the character is already guessed. \*/

int letterFill (char guess, char secretword[], char guessword[])

{

int i;

int matches=0;

for (i = 0; secretword[i]!='\0'; i++)

{

// Did we already match this letter in a previous guess?

if (guess == guessword[i])

return 0;

// Is the guess in the secret word?

if (guess == secretword[i])

{

guessword[i] = guess;

matches++;

}

}

return matches;

}

// Initialize the unknown word

void initUnknown (char word[], char unknown[])

{

int i;

int length = strlen(word);

for (i = 0; i < length; i++)

unknown[i]='\*';

unknown[i]='\0';

}

// Project ends here