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11/4/15

Assignment 5

CODE

#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main()

{

const int MIN\_VALUE = 1;

const int MAX\_VALUE = 100;

int rn, answer;

char again;

unsigned seed = time(0);

srand(static\_cast<unsigned int>(time(0)));

cout << "Welcome to the RANDOM NUMBER GUESSING GAME!\n"

<< endl;

cout << "Guess a number between 1-100, if your right you win!\n";

cout << "If not, you must try again" << endl;

cout << "\n";

do

{

rn = (rand() % (MAX\_VALUE + MIN\_VALUE + 1)) - MIN\_VALUE;

cout << "Guess the number: ";

cin >> answer;

while (answer < 1)

{

cout << "Invalid input, input an answer between 1-100" << endl;

cin.clear();

cin.ignore();

cin >> answer;

}

while (answer != rn)

{

if (answer < rn)

{

cout << "TOO LOW! Try again: ";

cin >> answer;

}

else if (answer > rn)

{

cout << "TOO HIGH! Try again: ";

cin >> answer;

}

}

cout << "Congrats!!! You got it!" << endl;

cout << "Good Work! Would you like to try again?" << endl;

cin >> again;

} while (again == 'Y' || again == 'y');

cout << "Please play again soon!" << endl;

return 0;

}

RESULT

Welcome to the RANDOM NUMBER GUESSING GAME!

Guess a number between 1-100, if your right you win!

If not, you must try again

Guess the number: -4

Invalid input, input an answer between 1-100

50

TOO LOW! Try again: 60

TOO LOW! Try again: 70

TOO LOW! Try again: 80

TOO LOW! Try again: 90

TOO HIGH! Try again: 85

TOO HIGH! Try again: 82

TOO LOW! Try again: 83

Congrats!!! You got it!

Good Work! Would you like to try again?

y

Guess the number: 70

TOO HIGH! Try again: 60

TOO HIGH! Try again: 50

TOO HIGH! Try again: 40

TOO HIGH! Try again: 30

TOO HIGH! Try again: 20

TOO HIGH! Try again: 10

TOO LOW! Try again: 15

TOO HIGH! Try again: 13

TOO HIGH! Try again: 12

Congrats!!! You got it!

Good Work! Would you like to try again?

n

Please play again soon!

Press any key to continue . . .