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PLDL01E PROGRAMMING LOGIC AND DESIGN

PROJECT

- 1. Use C++ to make a simple application on business or games.
- 2. The project is 20 pts.
- 3. Employ menu options in the application. (See example below)

```
// "DigiGuess It?"
// A mini programming project by JB Tugano & CJ Chavez (C++)
// CPE 201 (PLDL01E)
// Finals' Project
#include <iostream>
#include <time.h>
#include <stdlib.h>
using namespace std;
int main()
  int n,i;
  int number;
  int choice;
  bool isGuessed = false;
  char playAgain = 'y';
  cout << "Welcome to "DigiGuess It?"\n";</pre>
  cout << "A mini programming project by: JB Tugano and CJ Chavez" << endl;</pre>
  cout << "
        cout << "0. EXIT" << endl << "1. PLAY THE GAME\n\n" << endl;
```

```
cin >> choice;
     switch(choice)
       {
         case 0:
           cout << "-----\n";
           cout << "Aww...I hope we can play soon. Thank you very much!\n";</pre>
           return 0;
         case 1:
           cout << "Come On! Let's Play 'DigiGuess It?'\n";
           cout << "NOTE: This game is in Survival Mode (when you WIN).\n";
           break;
       }
srand(time(0)); // Generating different random numbers each time game will run
number=rand()%100 + 1; //Generating random numbers
while (playAgain == 'y' |  | playAgain == 'Y')
{
cout << "Guess a number between 1-100, only 10 turns to take: ";
for(i=0;i<10;i++)
{
cin>>n;
if(number==n)
cout<<"\nHOORAY, WELL DONE! You have guessed the right number, "<<number;
 cout<<"\nNumber of guesses made: "<<i+1 << endl;</pre>
```

```
break;
 }
 else if(number>n)
  cout<<"\nToo low, Turns left: "<<10-(i+1);</pre>
  if(10-(i+1)>0)
    cout<<"\nTry again, use higher digit: ";</pre>
   }
 }
 else if(number<n)
 {
  cout<<"\nToo high, Turns left: "<<10-(i+1);
  if(10-(i+1)>0)
    cout<<"\nTry again, use lower digit: ";</pre>
   }
}
if(i==10)
 cout<<"\n\nGAME OVER! You failed to guess the correct number.";</pre>
 cout<<"\nThe correct answer is: "<<number << endl;</pre>
 cout << "Would you like to play again? (y/n)" << endl;
  cin >> playAgain;
  if (playAgain == 'y' |  | playAgain == 'Y')
   isGuessed = false;
```

```
else
return 0;
}
return 0;
}
```

Screenshot of the Menu options

```
Welcome to ''DigiGuess It?''
A mini programming project by: JB Tugano and CJ Chavez

O. EXIT
1. PLAY THE GAME
```

If you choose "0"

```
O
Aww...I hope we can play soon. Thank you very much!

...Program finished wth exit code 0
Press ENTER to exit console.
```

If you choose "1"

When you win the game

```
Try again, use lower digit: 2

Too low, Turns left: 4

Try again, use higher digit: 4

HOORAY, WELL DONE! You have guessed the right number, 4

Number of guesses made: 7

Guess a number between 1-100, only 10 turns to take:
```

When you lose the game

```
Try again, use higher digit: 1

Too low, Turns left: 0

GAME OVER! You failed to guess the correct number.

The correct answer is: 60

Would you like to play again? (y/n)
```

When you click "n" in lose game

```
GAME OVER! You failed to guess the correct number.
The correct answer is: 60
Would you like to play again? (y/n)
n
...Program finished with exit code 0
Press ENTER to exit console.
```

When you press "y" in lose game

```
Too low, Turns left: 0

GAME OVER! You failed to guess the correct number.

The correct answer is: 81

Would you like to play again? (y/n)

Y

Guess a number between 1-100, only 10 turns to take:
```