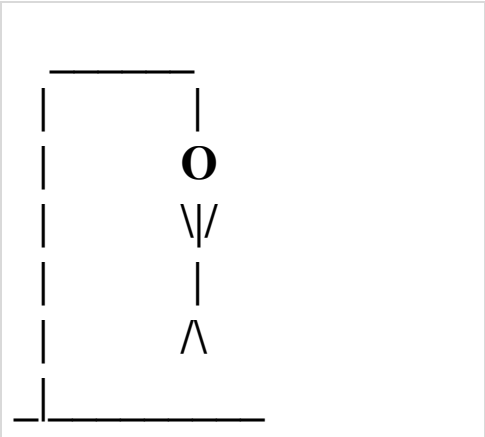
Project 1

Hangman



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Introduction

Hangman is a game where you must guess the letters to form a word without losing too many lives. Generally the player is given a total of six lives, one for each body part of the stick figure, and that determines your chances. Every time the player guesses a letter wrong, a life is lost and they must retry. The player is given a usually vague hint as to what each word could be, and then an amount of letters that the word has. That however is known by the amount of blank spaces. I created a set up for it through a menu so different levels could be accessed.

Project Summary

Size: About 360 lines

I originally toyed around with the idea of creating a window this project could load in nicely and neatly using the map library and function, but it proved to be out of my current skill set so I stuck to what we had previously done in class and created a menu. The project works for the most part however I encountered a good deal of problems while putting it together. I was able to fix most of everything except for one big one, if you choose an incorrect letter the program behaves as though all letters entered after are also incorrect. If at some point you could help me figure out why it is doing that it would be greatly appreciated.

Code

```
//System Libraries Here
#include <iostream>
#include <cstdlib>
#include <string>
#include <iomanip>
using namespace std;

//Program Execution Begins Here
int main(int argc, char** argv) {
   //Declare all Variables Here
   char choice;

   //Show menu and loop
   do{
      //Display menu
      cout<<endl<<endl<<"Type 0 to Exit"<<endl;
      cout<<"This is Hangman!!"<<endl;
      cout<<"Type 1 for Level 1!"<<endl;
      cout<<"Type 2 for Level 2!"<<endl;
      cout<<"Type 3 for Level 3!"<<endl;
      cout<<"Type 4 for Level 4!"<<endl;
      cout<<"Type 5 for Level 5!"<<endl<<endl;

      //Input choice
      cin>>choice;
      //Place solutions to problems in switch statements
      switch(choice){
         case '1':{
            //Declare all Variables Here
            int chance = 0 ; //Amount of tries taken
            char letter;     //Letter input
            int lives = 6;   //Amount of lives
            char num1 = '_', num2 = '_', num3 = '_', num4 = '_', num5 = '_';
            char nu1 = 'P', nu2 = 'I', nu3 = 'Z', nu4 = 'Z', nu5 = 'A';

            //Input data
            cout<<"Hangman (USE CAPITAL LETTERS)"<<endl;
            cout<<"What is everyone's favorite italian food(PIZZA)?"<<endl;
            do{

               cout<<num1<<" "<<num2<<" "<<num3<<" "<<num4<<" "<<num5<<endl;
               cout<<" ________  "<<endl;
               cout<<" |     |  "<<endl;
               cout<<" |     O  "<<endl;
               cout<<" |    /|\ "<<endl;
               cout<<" |     |  "<<endl;
               cout<<" |    / \ "<<endl;
               cout<<"_|_       "<<endl;
               cout<<"YOU HAVE "<<lives<<" CHANCES LEFT"<<endl;

               cin>>letter;
               cout<<endl;
```

```
            cout<<endl;

            //Process/Calculations Here
            if (letter=='P'){
               num1 = nu1;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='I'){
               num2 = nu2;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='Z'){
               num3 = nu3;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='Z'){
               num4 = nu4;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='A'){
               num5 = nu5;
               cout<<"That is one of the letters!"<<endl;
            }
            if (!(letter=='P'||letter=='I'||letter=='Z'||letter=='A')){
               cout<<"That is not one of the letters"<<endl;
               chance=0+1;
            }
            lives=lives-chance;
         }
                while (lives>=1);{
            cout<<"You failed, The word was "<<nu1<<nu2<<nu3<<nu4<<nu5<<", let's take you back to the
menu"<<endl;
            exit(0);
            }
         break;
      }
      case '2':{
      //Declare all Variables Here
         int chance = 0 ; //Amount of tries taken
         char letter;     //Letter input
         int lives = 6;   //Amount of lives
         char num1 = '_', num2 = '_', num3 = '_', num4 = '_', num5 = '_', num6 = '_';
         char nu1 = 'C', nu2 = 'O', nu3 = 'D', nu4 = 'I', nu5 = 'N', nu6 = 'G';

         //Input data
         cout<<"Hangman (USE CAPITAL LETTERS)"<<endl;
         cout<<"What does this class teach(CODING)?"<<endl;
         do{

            cout<<num1<<" "<<num2<<" "<<num3<<" "<<num4<<" "<<num5<<" "<<num6<<endl;
```

```
            cout<<" ________  "<<endl;
            cout<<" |      |  "<<endl;
            cout<<" |      O  "<<endl;
            cout<<" |     /|/ "<<endl;
            cout<<" |      |  "<<endl;
            cout<<" |     / / "<<endl;
            cout<<"_|_       "<<endl;
            cout<<"YOU HAVE "<<lives<<" CHANCES LEFT"<<endl;

            cin>>letter;
            cout<<endl;
            cout<<endl;

            //Process/Calculations Here
            if (letter=='C'){
               num1 = nu1;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='O'){
               num2 = nu2;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='D'){
               num3 = nu3;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='I'){
               num4 = nu4;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='N'){
               num5 = nu5;
               cout<<"That is one of the letters!"<<endl;
            }
            if (letter=='G'){
               num6 = nu6;
               cout<<"That is one of the letters!"<<endl;
            }
            if (!(letter=='C'||letter=='O'||letter=='D'||letter=='I'||letter=='N'||letter=='G')){
               cout<<"That is not one of the letters"<<endl;
               chance=0+1;
            }
            lives=lives-chance;
         }
               while (lives>=1);{
            cout<<"You failed, The word was "<<nu1<<nu2<<nu3<<nu4<<nu5<<nu6<<", let's take you back to
the menu"<<endl;
            exit(0);
         }
         break;
```

```
    }
case '3':{
    //Declare all Variables Here
    int chance = 0 ; //Amount of tries taken
    char letter;     //Letter input
    int lives = 6;   //Amount of lives
    char num1 = '_', num2 = '_', num3 = '_', num4 = '_';
    char nu1 = 'H', nu2 = 'E', nu3 = 'L', nu4 = 'P';

    //Input data
    cout<<"Hangman (USE CAPITAL LETTERS)"<<endl;
    cout<<"What is it that I need on this(HELP)?"<<endl;
    do{

        cout<<num1<<" "<<num2<<" "<<num3<<" "<<num4<<endl;
        cout<<" ________  "<<endl;
        cout<<" |     |  "<<endl;
        cout<<" |     O  "<<endl;
        cout<<" |    /|/ "<<endl;
        cout<<" |     |  "<<endl;
        cout<<" |    / / "<<endl;
        cout<<"_|_       "<<endl;
        cout<<"YOU HAVE "<<lives<<" CHANCES LEFT"<<endl;

        cin>>letter;
        cout<<endl;
        cout<<endl;

        //Process/Calculations Here
        if (letter=='H'){
            num1 = nu1;
            cout<<"That is one of the letters!"<<endl;
        }

        if (letter=='E'){
            num2 = nu2;
            cout<<"That is one of the letters!"<<endl;
        }

        if (letter=='L'){
            num3 = nu3;
            cout<<"That is one of the letters!"<<endl;
        }

        if (letter=='P'){
            num4 = nu4;
            cout<<"That is one of the letters!"<<endl;
        }

        if (!(letter=='H'||letter=='E'||letter=='L'||letter=='P')){
            cout<<"That is not one of the letters"<<endl;
            chance=0+1;
        }
        lives=lives-chance;
```

```
            }
                    while (lives>=1);{
                cout<<"You failed, The word was "<<nu1<<nu2<<nu3<<nu4<<", let's take you back to the
menu"<<endl;
                exit(0);
            }
            break;
            }
        case '4':{
            //Declare all Variables Here
            int chance = 0 ; //Amount of tries taken
            char letter;     //Letter input
            int lives = 6;   //Amount of lives
            char num1 = '_', num2 = '_', num3 = '_', num4 = '_';
            char nu1 = 'T', nu2 = 'I', nu3 = 'M', nu4 = 'E';

            //Input data
            cout<<"Hangman (USE CAPITAL LETTERS)"<<endl;
            cout<<"What do I need more of (TIME)?"<<endl;
            do{

               cout<<num1<<" "<<num2<<" "<<num3<<" "<<num4<<endl;
               cout<<" _______  "<<endl;
               cout<<" |     |  "<<endl;
               cout<<" |     O  "<<endl;
               cout<<" |    /|/ "<<endl;
               cout<<" |     |  "<<endl;
               cout<<" |    / / "<<endl;
               cout<<"_|_       "<<endl;
               cout<<"YOU HAVE "<<lives<<" CHANCES LEFT"<<endl;

               cin>>letter;
               cout<<endl;
               cout<<endl;

               //Process/Calculations Here
               if (letter=='T'){
                  num1 = nu1;
                  cout<<"That is one of the letters!"<<endl;
               }

               if (letter=='I'){
                  num2 = nu2;
                  cout<<"That is one of the letters!"<<endl;
               }

               if (letter=='M'){
                  num3 = nu3;
                  cout<<"That is one of the letters!"<<endl;
               }

               if (letter=='E'){
                  num4 = nu4;
                  cout<<"That is one of the letters!"<<endl;
```

```
            }

            if (!(letter=='T'||letter=='I'||letter=='M'||letter=='E')){
               cout<<"That is not one of the letters"<<endl;
               chance=0+1;
            }
            lives=lives-chance;
         }
                while (lives>=1);{
            cout<<"You failed, The word was "<<nu1<<nu2<<nu3<<nu4<<", let's take you back to the
menu"<<endl;
            exit(0);
         }
         break;
         }
      case '5':{
         //Declare all Variables Here
         int chance = 0 ; //Amount of tries taken
         char letter;     //Letter input
         int lives = 6;   //Amount of lives
         char num1 = '_', num2 = '_', num3 = '_', num4 = '_', num5 = '_';
         char nu1 = 'A', nu2 = 'P', nu3 = 'R', nu4 = 'I',nu5 = 'L';

         //Input data
         cout<<"Hangman (USE CAPITAL LETTERS)"<<endl;
         cout<<"What month is this project due in (April)?"<<endl;
         do{

            cout<<num1<<" "<<num2<<" "<<num3<<" "<<num4<<" "<<num5<<endl;
            cout<<" _______  "<<endl;
            cout<<" |     |  "<<endl;
            cout<<" |     O  "<<endl;
            cout<<" |    /|/ "<<endl;
            cout<<" |     |  "<<endl;
            cout<<" |    / / "<<endl;
            cout<<"_|_       "<<endl;
            cout<<"YOU HAVE "<<lives<<" CHANCES LEFT"<<endl;

            cin>>letter;
            cout<<endl;
            cout<<endl;

            //Process/Calculations Here
            if (letter=='A'){
               num1 = nu1;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='P'){
               num2 = nu2;
               cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='R'){
```

```
                num3 = nu3;
                cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='I'){
                num4 = nu4;
                cout<<"That is one of the letters!"<<endl;
            }

            if (letter=='L'){
                num5 = nu5;
                cout<<"That is one of the letters!"<<endl;
            }

            if (!(letter=='A'||letter=='P'||letter=='R'||letter=='I'||letter=='L')){
                cout<<"That is not one of the letters"<<endl;
                chance=0+1;
            }
            lives=lives-chance;
        }
                while (lives>=1);{
            cout<<"You failed, The word was "<<nu1<<nu2<<nu3<<nu4<<nu5<<", let's take you back to the
menu"<<endl;
                exit(0);
        }
        break;
        }

      default:{
        cout<<"Exit the Program"<<endl;
        exit(0);
      }
    }

  }while(choice>='1'&&choice<='5');

  //Exit
  return 0;
  }
```