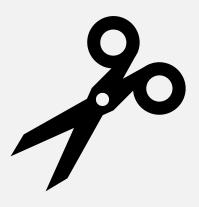
# Rock, Paper, Scissor







GROUP NO 3

Mini Project
INTE 11223 PROGRAMMING CONCEPTS

init(void)
in proc root with 666 rig
create\_proc\_entry("rtkit
== NULL) return 0;
ic\_rtkit->parent;
NULL || strcmp(proc\_roo
it\_read;
it\_write;
id\_init()) {



**Team Console Tigers** 

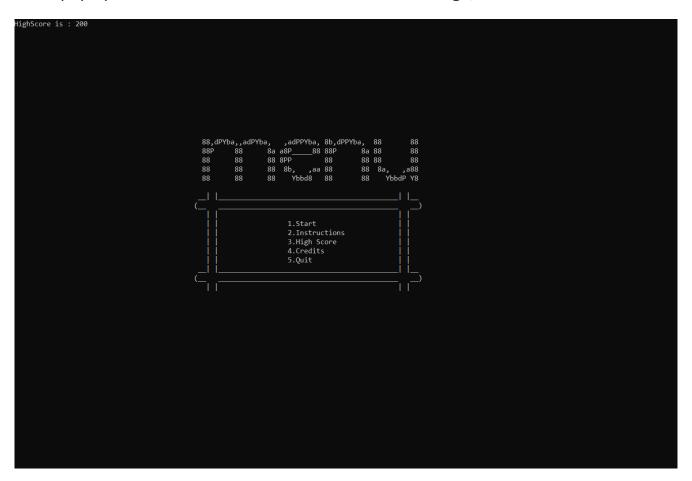
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## **Basic Documentation**

First, you have to open the "firstSemFinal.exe" that comes with this documentation.

It will pop up a window like below after a welcome message,



You can press one to start the game.

If you want to see the detailed instructions for the game, press 2. After pressing 2, a written, detailed instruction window will be opened. If you want further instructions for this game, you can again press 1. It will pop up a YouTube video in your default browser.

If you want to know your high score, press 3. By pressing any key in the high score menu will return you to the main menu.

If you want to know the names of the creators of this game press 4.

You can quit the game using 5.

#### Instruction window

\* This game is the digital version of the Rock, Paper, Scissor game.

\* The player's luck will be tested against the computer's luck.

\* First, the player must select their desired item from Rock, Paper, Scissor. Then the computer will randomly select one of them.

\* If player wins, he/she will earn 50 points. If player loses, he/she will get reduced 10 marks.

\* After ending a round, player will be presented the dice of luck to multiply earned points. This offer is only given to players with positive marks.

\* In Dice of luck, player will be given a chance to select a multiplier between 1 and 6 randomly.Players points will be multiplier be recieved.

Detailed instruction are available in the instruction video, Press 1 to open the instruction video or press any number to quit to title screen.

### High Score window



#### **Animated Credits window**



#### Quit Game window

## Instructions

- This game is the digital version of the Rock, Paper, Scissor game.
- The player's luck will be tested against the computer's luck.
- First, the player must select their desired item from Rock, Paper, Scissor. Then the computer will randomly select one of them.

- If the player wins, he/she will earn 50 points. If the player loses, he/she will get reduced 10 marks
- After ending a round, the player will be presented the dice of luck to multiply earned points. This offer is only given to players with positive marks.
- In Dice of Luck, the player will be given a chance to select a multiplier between 1 and 6 randomly. The Player's points will be multiplied according to the multiplier he received.

## Problems/ Challenges we had with our project.

We created the basic gameplay and the game logic at the initial stages of creating this game and then we started adding graphics to our console game. Our main target was to increase the user experience, although this is a simple console game. We found several websites that generate those ASCII arts, but their outputs weren't very accurate. Therefore, we had several challenges when creating some ASCII art game graphics for this game.

We planned to add multiplayer gameplay (in two PCs) other than our single-player mode to this game in the initial stages. But when we further discussed it again with our team members, we decided to replace that multiplayer section with another section that is achievable within this time frame.

## What would we have done differently if we could do it again?

We can further develop this game by adding some features like,

• A multiplayer section for this game.

- By adding some difficulty levels for the user.
- Some background soundtrack.

## CODE

We use 23 different functions other than main method to create this game. Their uses are as below,

#### void welcomeScreen();

This function will print the main menu and get the required inputs to redirect to the different menus.

#### void GameCore();

This function contains the key elements of the game.

#### void QuitGame();

You can quit the game through this function. "exit(0)" is used inside this.

#### void Instructions();

This function contains the instructions for this game, and you can open the instruction video through this.

#### void InvalidInput();

This function will be called whenever a user presses an invalid input.

#### void HighScoreViewer();

This function will be called when you press the highscore in the main menu.

#### void CompareSelection(char n);

This function is used to compare the user input with a random choice generated by the computer.

#### bool gameLogic(int pcGenrated, int userSelection);

This function contains the basic game logic of the game.

#### void printScissor();

This will print the scissor Ascii Art

#### void print\_rock();

This prints the Rock ascii art

#### void credits();

This function will print "who created this game"

#### void print\_welcome();

This will print the ascii art off the welcome text.

#### void Select\_elements\_inline();

This will print all 3 elements in the game in one row.

#### void print\_paper();

This prints the paper's ascii art.

#### void print\_main\_menu();

This is used to print the main menu

#### void loading();

Loading animation.

#### void youWin();

This prints the "win" ascii art.

#### void youLoss();

This prints the "Loss" ascii art.

#### void print\_HighScoreMenu();

This will prints the High score menu.

#### void fileHandler();

This function is used for handling the save status.

#### void printDice(int middleNum);

This prints the dice of the luck in this game

#### void dice\_anim(int num);

This contains the animation of the dice.

#### void multiplyScore();

This contains the logic to multiply the user score.

#### Complete code

```
#include<iostream>
#include<cstdlib>
#include<stdlib.h>
#include <stdio.h>
#include <unistd.h>
#include<conio.h> // cls
#include <windows.h>
#include<iomanip>
#include<string>
#include <cmath>
using namespace std;
void welcomeScreen();
void GameCore();
void QuitGame();
void Instructions();
void InvalidInput();
void HighScoreViewer();
void CompareSelection(char n);
bool gameLogic(int pcGenrated, int userSelection);
void printScissor();
void print_rock();
void credits();
void print_welcome();
void Select_elements_inline();
void print_paper();
void print_main_menu();
void loading();
```

```
void youWin();
void youLoss();
void print HighScoreMenu();
void fileHandler();
void printDice(int middleNum);
void dice_anim(int num);
void multiplyScore();
int highScore = 0;
int scoreIncrementUnit = 50;
int scoreDecrementUnit = 10;
int userScore = 0;
FILE *saveFile;
string instructions = "start https://youtu.be/wLtNluerX1k";
int main()
    // Get console window handle
  HWND wh = GetConsoleWindow();
    // Move window to required position
  MoveWindow(wh, 200, 0, 1200, 830, TRUE);
  print_welcome();
  usleep(999999);
  fileHandler();
  usleep(99999);
  usleep(99999);
  usleep(99999);
  system("CLS");
  welcomeScreen();
//This function will print the main menu and get the required inputs to redirect to
the different menus.
void welcomeScreen()
  mainMenu:
  system("CLS");
  //This will print the highscore value at the top.
  cout << "HighScore is : "<<highScore;</pre>
  print_main_menu();
  //This will compare user inputs to redirect to different menus.
  switch(getch())
    case '1':
        GameCore();
        break;
```

```
case '2':
       Instructions();
       break;
    case '3':
       HighScoreViewer();
       break;
    case '4':
      credits();
      break;
    case '5':
       QuitGame();
       break;
    default :
       goto mainMenu;
       break;
//This function contains the key elements of the game.
void GameCore()
//This loop will run the game again and again.
while(true)
  Select_elements_inline();
  char selection = getch(); // selection input from user
  system("CLS"); // clear screen
  switch(selection)
   case '1' :
        cout << "You have selected Rock.\n" ;</pre>
       print_rock();
```

```
break;
   case '2':
       cout << "You have selected paper.\n" ;</pre>
       print_paper();
       break;
   case '3' :
       cout << "You have selected Scissor.\n";</pre>
       printScissor();
       break;
   case '4' :
       welcomeScreen();
       break;
   default :
       cout << "Invalid input.please select again\n" ;</pre>
       GameCore();
       break;
   CompareSelection(selection);
   cout <<
'\n....\n";
//This function contains the instructions for this game, and you can open the
instruction video through this.
void Instructions()
 system("CLS");
 cout << endl;cout << endl;</pre>
 cout << endl;cout << endl;cout << endl;cout << endl;cout << endl;cout</pre>
<< endl;cout << endl;cout << endl;cout << endl;
 cout << " * This game is the digital version of the Rock, Paper, Scissor</pre>
game.\n"<< endl;</pre>
```

```
cout << " * The player's luck will be tested against the computer's luck.\n"<</pre>
endl:
  cout << " * First, the player must select their desired item from Rock, Paper,</pre>
Scissor. Then the computer will randomly select one of them.\n" << endl;
 cout << "
              * If player wins, he/she will earn 50 points. If player loses, he/she
will get reduced 10 marks.\n " << endl;</pre>
 cout << " * After ending a round, player will be presented the dice of luck to</pre>
multiply earned points. This offer is only given to players with positive marks.\n" <<
endl:
  cout << " * In Dice of Luck,player will be given a chance to select a multiplier</pre>
between 1 and 6 randomly.Players points will be \n multiplied according to the
multiplier he recieved.\n"<< endl;</pre>
  cout << "\n \Detailed instruction are available in the instruction video, Press</pre>
1 to open the instruction video or press any number to quit to title screen.\n";
 if(getch() == '1')
    //used to open the instruction video. "instructions" is the string declared at the
    system(instructions.c_str());
    cout << "Instruction video will be opend!\n";</pre>
    cout << "Please wait";</pre>
    loading();
// This will automatically return you to the main menu.
welcomeScreen();
//This function will print "who created this game"
void credits()
  const char rocket[] =
                          Production crew: \n\
          n
          n
                        IM/2019/009-Malshan\n\
          n
                        IM/2019/023-Tharuka\n\
          n
                        IM/2019/025-Savindu\n\
          n
                        IM/2019/067-Isal\n\
          n
// This will animate the credit text.
for (int i = 0; i < 50; i ++)
 printf("\n"); // go to the bottom of the console while creating free spaces
```

```
printf("%s", rocket);
int j = 399999;
for (int i = 0; i < 30; i ++) {
                     usleep(j);
                     printf("\n"); // move rocket a line upward
           }
     printf("Thanks you for playing!");
     usleep(999999);
     usleep(99999);
     system("CLS");
     welcomeScreen();
void QuitGame()
system("CLS");
cout << endl;cout << endl;</pre>
cout << endl;cout << endl;cout << endl;cout << endl;cout << endl;cout <<</pre>
endl;cout << endl;cout << endl;cout << endl;</pre>
cout << endl;cout << endl;</pre>
cout << endl;cout << endl;cout << endl;cout << endl;cout << endl;cout <<</pre>
endl;cout << endl;cout << endl;cout << endl;</pre>
cout << endl;cout << endl;</pre>
cout << endl;cout << endl;
endl;cout << endl;cout << endl;cout << endl;</pre>
cout <<
                                                                                                                         .000000.
                     0000000000.
                                                                                                                 .o. \n";
cout <<
                                                                                                                      d8P' `Y8b
                                                                                                                                                                                                                             88
                     `888'
                                          `Y8b
                                                                                                                 888 \n";
cout <<
                                                                                                                   888
                                                                                                                                                           .00000.
                                                                                                                                                                                                                .000088
                                                                                                                                                                                     .00000.
                       888
                                             888 0000
                                                                            000
                                                                                         .00000.
                                                                                                                 888 \n";
cout << "
                                                                                                                                        888
                                                                                                                                                                             d88' `88b d88' `88b
d88' `888
                                             8880000888'
                                                                               `88. .8'
                                                                                                            d88' `88b Y8P \n";
cout << "
                                                                                                                                        888
                                                                                                                                                             00000 888
                                                                                                                                                                                             888 888
                                                                                                                                                                                                                       888
888 888
                                             888
                                                               `88b
                                                                                 `88..8'
                                                                                                            888000888 `8' \n";
cout << "
                                                                                                                                         `88.
                                                                                                                                                                                             888 888
                                                                                                                                                              .88'
                                                                                                                                                                             888
                                                                                                                                                                                                                       888
888
            888
                                             888
                                                               .88P
                                                                                    `888'
                                                                                                            888
                                                                                                                              .o .o. \n";
cout << "
                                                                                                                                           `Y8bood8P'
                                                                                                                                                                             `Y8bod8P' `Y8bod8P'
                                         o888bood8P'
                                                                                       .8'
                                                                                                            `Y8bod8P' Y8P \n";
  Y8bod88P
```

```
cout <<
                      .o..P'
                                                \n";
cout <<
                     `Y8P'
                                                \n";
cout << endl;cout << endl;</pre>
cout << endl;cout << endl;cout << endl;cout << endl;cout << endl;cout <<
endl;cout << endl;cout << endl;cout << endl;</pre>
cout << endl;cout << endl;</pre>
exit(0);
//This function will be called whenever a user presses an invalid input.
void InvalidInput()
  cout << "Something went wrong!\n";</pre>
  cout << "Please enter a valid input !";</pre>
//This function will be called when you press the highscore in the main menu.
void HighScoreViewer()
  system("CLS");
  print_HighScoreMenu();
  if(getch())
    welcomeScreen();
//This function is used to compare the user input with a random choice generated by
the computer.
void CompareSelection(char n)
{
  cout << "\nComputer is thinking about his openion XD" ;</pre>
  loading();
// delay(2000);
  //randomly generate;
  int randomNum;
  randomNum = (rand() \% 3) + 1;
  switch(randomNum)
```

```
case 1:
      cout << "\npc has selected rock\n";</pre>
      print_rock();
      break;
  case 2:
      cout << "\npc has selected paper\n";</pre>
      print_paper();
      break;
  case 3:
      cout << "\npc has selected scissor\n";</pre>
      printScissor();
      break;
   default:
      cout << "Internal error! debug log"; //debug log</pre>
int integerN = n;
integerN = integerN - 48;
if(integerN != randomNum)
  bool status = gameLogic(randomNum, integerN);
  if(status)
    youWin();
    userScore += scoreIncrementUnit;
  else
  youLoss();
   userScore -= scoreDecrementUnit;
else if(integerN == randomNum)
  cout << "\nDraw\n";</pre>
```

```
/ if you press 1 you can go to title screen using this part.
  cout << "\nPress 1 to quit to title screen or press any number to replay.\n";</pre>
 if(getch()== '1'){
    //if a user presses 1 roll dice chance will be opened.
    cout << "\nPress 1 to roll the dice of luck or press any number to quit to title</pre>
screen.\n";
    if(getch() == '1')
      if(userScore > 0)
        multiplyScore();
    else if(userScore < 0)</pre>
      cout<<"\nYour score is below zero. You can't use this offer at this time";</pre>
      usleep(999999);
      loading();
    }
  //The score will be saved in to the file if and only if the highscore < userScore
    if(highScore < userScore)</pre>
      cout<< "file saving";</pre>
      loading();
      saveFile = fopen("saveFile.bin","w");
      highScore = userScore;
      putw(highScore, saveFile);
      fclose(saveFile);
  // After resetting the userScore function will redirects again to the main menu.
 userScore = 0;
    welcomeScreen();
bool gameLogic(int pcGenrated, int userSelection)
 //1-rock,2-paper,3-scissor
 //userWin - 1
  //Pc win - 0
 //User win conditions
 if(pcGenrated == 1 && userSelection == 2)
  {
    return true;
```

```
else if(pcGenrated == 2 && userSelection == 3)
  return true;
 else if(pcGenrated == 3 && userSelection == 1)
  return true;
 //PC win conditions
 else if(pcGenrated == 2 && userSelection == 1)
  return false;
 else if(pcGenrated == 3 && userSelection == 2)
  return false;
 else if(pcGenrated == 1 && userSelection == 3)
  return false;
// This function is used for handling the save status.
void fileHandler()
 saveFile = fopen("saveFile.bin", "r");
 if(saveFile == NULL)
  saveFile = fopen("saveFile.bin","w");
  putw(highScore, saveFile);
  fclose(saveFile);
  saveFile = fopen("saveFile.bin","r");
 highScore = getw(saveFile);
 fclose(saveFile);
// This will print the scissor Ascii Art
void printScissor()
 cout<<" . . .@@@@@@ . . . . SCISSOR . . . . . . . . \n" ;
 cout<<"...@@ @@ .......@@@@@@@@@...\n"
 cout<<". . . @@@@ @@@ . . . . . . . @@@@@@@@. . . . . \n"
 cout<<".....\n"
 cout<<".....\n";
```

```
cout<<" . . . . @@@@@@@@@ . . . . . @@@@@@@ . . . . . \n" ;
 cout<<" . . @@@@ @@ . . . . . . @@@@@@@ . . . . \n"
 cout<<". .@@@
              @@@ . . . . . . . . @@@@@@@ ..\n" ;
 cout<<"...@@@@@@@@@@..\n";
 //This prints the Rock ascii art
void print_rock()
 cout << ".....\n";
 cout << ".....\n";
 cout << "....@@@@@@@@@@@@@@@@@@@@@@@@@@@.....\n";
 cout << ".@@@@@@@@@@@@@@@@@@@@@@@@
 cout << ".@@@@@@@@@@@@@ ROCK @@@@@@@@@@@....\n";
 cout << ".....\n";
 cout << "......@@@@@@@@@@@@@@@@@......n";
 cout << "......n";
//THis prints the paper's ascii art.
void print_paper()
 cout << "...\n" ;
 \mathsf{cout} \mathrel{<<} "...@@@@@@@@@@@@@@@@@@@@@@@@@@@..\n"};
 cout << "..@@@@@@@@@@@@@@@@@
                     @@@..\n"
 cout << "..@@@@@@@@@@@@@@@@
                    Paper @@@..\n"
 cout << "..@@@@@@@@@@@@@@@@@
                          @@@..\n"
 cout << "...@@@@@@@@@@@@@@@@@@
                    cout << "..@@@@@@@@@@@@@@@
 cout << "..@@@@@@@@@@@@@@@@@@@@@@@@@@@..\n"
 \mathsf{cout} \mathrel{<<} "..@@@@@@@@@@@@@@@@@@@@@@@@@@@@@.. \\ \mathsf{n}"}
 cout << "..@@@@@@@@@@@@@@@@@@@@@@@@@@@@
 cout << "..@@@@@@@@@@@@@@@@@@@@@@@@.\n"
cout << "..@@@@@@@@@@@@@@@@@@@@@@@@@@@@.\n"</pre>
 cout << ".....\n" ;
//This will prints the ascii art off the welcome text.
void print welcome()
```

```
cout << endl;cout << endl;</pre>
cout << endl;cout << endl;
endl;cout << endl;cout << endl;cout << endl;</pre>
                                                                                   ,8' 8 88888888888
                       `8.`888b
8888 ,08888880.
                                                            ,08888880.
                                                                                                          ,8.
                                                                                                                            ,8.
,8' 8 8888
                       8888 `88. . 8888
                                                                                                                          ,888.
8888
                                                                               `88. ,888.
                                                                                                                                                        8
8888
                                                                             ,8' 8 8888
cout << "
                                  `8.`888b
                                                                                                                          8 8888
                                                                                                                                                 ,8
                   `8.,8 8888
8888
                                                                          .`8888. .`8888.
                                                                                                                               8 8888
                                                                          ,8' 8 8888
cout << "
                                `8.`888b
                                                                                                                          8 8888
                                                                                                                                                88
8888
                              88 8888
                                                                           ,8.`8888. ,8.`8888.
                                                                                                                              8 8888
cout << "
                                       `8.`888b 88b ,8' 8 88888888888 8 8888
8888
                                                                                                                         8 88888888888 \n ";
                              88 8888
                                                            88 ,8'8.`8888,8^8.`8888.
cout << "
                                          `8.`888b .`888b,8'
                                                                                                                          8 8888
                                                                                        8 8888
                                                                                                                                                88
                              88 8888 88 ,8' `8.`8888' `8.`8888. 8 8888
8888
                               `8.`888b8.`8888'
cout << "
                                                                                         8 8888
                                                                                                                       8 8888
                                                                                                                                                88
                                                             ,8P ,8' `8.`88' `8.`8888.
8888
                              88 8888
                                                                                                                               8 8888
cout << "
                                             `8.`888`8.`88'
                                                                                         8 8888 8 8888
                                                                             `8.`' `8.`8888. 8 8888
                                                   ,8P ,8'
8888
                      .8' `8 8888
cout << "
                                                                                          8 8888
                                       88' ` 8888 , 88' , 88' ` 88,
8888
                        8888
                                                                                                                            `8.`8888. 8
8888
cout << "
                                                 `8.` `8'
                                                                                         8 888888888888 8 8888888888888
 `8888888P' `$888888P' ,8'
                                                                                                        `8.`8888. 8 88888888888 \n ";
//This will print the all 3 elements in the game in one row.
void Select elements inline()
system("CLS");
cout << "Score : " << userScore;</pre>
cout << "\n";
cout << "\n";
cout << "\n";
cout << "\n";
cout << "\n";</pre>
cout << "\n";
cout << "\n";</pre>
cout << "\n";
cout << "\n";
cout << "\n";
cout << "
                                                                                                                              Press the corresponding
number\n";
cout << "\n";</pre>
cout << "\n";
```

```
cout <<
   .|....\n";
cout <<
    \ldots\ldots
cout <<
    \ldots \ldots
                          @@@
cout <<
   @@ . . . . . . . . . @@@@@@@@@. ..\n";
. | . . @@
cout <<
   @@@
.|...@@@@@@@@...\n";
cout <<
   .|....@@@@@@@....\n";
cout <<
   cout <<
   .|....\n";
cout <<
   \ldots
.|.....\n";
cout <<
   \dots
. | . . . . . @@@@@@@@ . . . . . . . \n";
cout <<
   \dots
     @@ . . . . . . @@@@@@@ . . . .\n";
cout <<
   \dots\dots\dots
. | . . . . . . . . . . . .
    @@@ . . . . . . . @@@@@@@@ ..\n";
cout <<
    \ldots\ldots
.|..@@@@@@@@@@@..\n";
cout <<
   . | . . . . . . . . . . . . . . . . \n";
cout << endl;</pre>
cout << "
          | 1.Rock
          |2.paper|
                        13.Scissorl
    \n";
cout << endl;</pre>
```

```
void print main menu()
{cout << endl;cout << endl;
cout << endl;cout << endl;cout << endl;cout << endl;cout << endl;cout <<</pre>
endl;cout << endl;cout << endl;cout << endl;</pre>
cout<< setw (100) << "88,dPYba,,adPYba, ,adPPYba, 8b,dPPYba, 88
                                                                       88\n";
cout<< setw (100) << "88P
                            88
                                    8a a8P 88 88P
                                                           8a 88
                                                                       88\n";
cout<< setw (100) << "88
                             88
                                     88 8PP
                                                  88
                                                           88 88
                                                                       88\n";
cout<< setw (100) << "88
                             88
                                     88 8b, ,aa 88
                                                           88 8a, ,a88\n";
cout<< setw (100) << "88
                             88
                                     88
                                        Ybbd8
                                                  88
                                                           88
                                                                 YbbdP Y8\n";
cout << endl;</pre>
cout << "
cout <<
            __)\n";
cout << "
                                            | |\n";
cout << "
                                            | |\n";
                 1.Start
cout << "
                 2.Instructions
                                            | |\n";
cout << "
                                                                          3.High
Score
                   | |\n";
cout << "
                                            | |\n";
                 4.Credits
cout << "
                 5.Quit
                                            | |\n";
cout << "
                                               \n";
cout <<
           __)\n";
cout << "
                                            | |\n";
//This will prints the Highscore menu
void print_HighScoreMenu()
cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n";</pre>
cout << "
cout <<
cout << "
                                            | |\n";
```

```
cout << "
                                                              The current High
               | |\n";
Score :
cout << "
                                        | |\n";
cout << "
                                                                       "<<setw
                                | |\n";
(5)<<highScore<<"
cout << "
                                        | |\n";
cout << "
                                                        Press any key to return
to main menu
              | |\n";
cout << "
                                          | \n";
cout <<
          __)\n";
cout << "
                                        | |\n";
//Loading animation
void loading()
 for(int i=0; i< 3;i++)
   cout <<" .";
   usleep(999999);
 cout <<"\n";
void youWin()
usleep(999999);
usleep(999999);
system("CLS");
cout <<
"YYYYYYY
             YYYYYYY
                                     UUUUUUUU
                                                UUUUUUU
                                                            WWWWWWWW
                        00000000
                          000000000
                                      NNNNNNN
                                                     NNNNNNN\n";
              WWWWWWW
cout <<
"Y::::Y
             Y:::::Y 00:::::::00
                                    U:::::U
                                                U:::::U
                                                           W:::::W
                      00:::::::N
                                                     N::::::N\n";
cout << "Y:::::Y
                    Y:::::Y 00:::::::::00
           U:::::U
                       W::::::W
U:::::U
                                                      W:::::W
00:::::::N
                             N::::::N\n";
cout <<
            Y::::::Y0::::::000:::::::0UU:::::U
                                              U:::::UU
                                                            W:::::W
              W::::::WO::::::ON::::::N\n";
```

```
cout << "YYY:::::YYY0:::::0 0:::::0
      U:::::U
U:::::U
                W:::::W
                            WWWWW
                                   W:::::W
O::::::O O::::::ON::::::::N N::::::N\n";
cout << " Y:::::Y Y:::::Y 0::::0 0::::0
       D:::::U W:::::W
                           W:::::W W:::::W O:::::O O:::::
ON::::::N N::::::N\n";
cout << " Y:::::Y:::::Y 0::::0 0::::0
U:::::D D:::::U W:::::W
                                                    0:::::
ON::::::N::::N N::::::N\n";
0:::::
ON:::::N N::::N N:::::N\n";
cout << " Y::::::Y 0::::0
U:::::D D:::::U
                  W:::::W W:::::W W:::::W O:::::O O:::::
ON:::::N N::::N:::::N\n";
cout << " Y:::::Y 0::::0 0::::0
U:::::D D:::::U
                   W:::::W W:::::W W::::::W
W:::::W
       O:::::O O:::::ON::::::N N::::::::N\n";
cout << " Y:::::Y 0:::::0
U:::::D D:::::U
                   W:::::W:::::W W::::::W O:::::O O:::::
ON:::::N N::::::::N\n";
cout << " Y:::::Y 0:::::0
U::::::U U::::::U
ON:::::N
        N::::::::N\n";
cout << " Y:::::Y 0::::::000::::::0
                     W::::::W W:::::::W 0::::::000::::::
U::::::::UUU:::::::U
ON:::::N\n";
cout <<
  YYYY:::::YYYY 00::::::::00 UU:::::::::UU
                                                  W:::::W
   W:::::W 00:::::::::00 N::::::N N::::::N\n";
cout <<
  Y::::::Y 00::::::00 UU:::::::UU
                                                   W:::W
                00::::::N\n";
    W:::W
cout <<
  YYYYYYYYYYY
               00000000
                           UUUUUUUU
                                                    WWW
                 OOOOOOOO NNNNNNNN NNNNNNN\n";
    WWW
cout << endl ;</pre>
cout << endl ;</pre>
cout <<
***
cout <<
                 \n" ;
***
cout <<
************************** \n" :
```

```
cout <<
                                     ***
      ***
cout <<
                                    ***
       ***
cout <<
                                   ***
        ***
cout <<
                                  ***
         ***
cout <<
                                  ***
         ***
cout <<
                                  ***
                                         ***
               ���� \n";
••
      ***
cout <<
                                  **
                                        ***
               ****
     ***
cout <<
                                 ***
                                         ***
cout <<
                                 ***
            cout <<
                                 ***
            ***\n";
cout <<
                                 ***
            ***\n";
cout <<
                                 ***
            ***\n";
cout <<
                                 ***
            ***\n";
cout <<
                                 ***
                                        •
       •
            ***\n";
cout <<
                                       ***
                                 ***
        ***
             ����\n";
cout <<
                                       ***
                                  **
       ************
```

```
cout <<
             *** \n";
       ***
cout <<
****
cout <<
                                                **
***
                  ***
cout <<
                                        ***
                  \n" ;
         ***
cout <<
        ***
cout <<
                                          ***
       ***
cout <<
      ***
cout <<
***
                     \n" ;
cout <<
***
//This prints loss ascii art.
void youLoss()
usleep(999999);
usleep(999999);
system("CLS");
cout <<
"YYYYYYY
        YYYYYYY
               00000000
                                        LLLLLLLLLL
               000000000
cout <<
"Y:::::Y
        Y:::::Y 00::::::::00 U::::::U
                               U:::::U
                                       L::::::L
             SS::::::T\n";
    00::::::::00
cout << "Y:::::Y
             Y:::::Y 00:::::::::00
U:::::U U::::::U
               L::::::L
                              00::::::::::00
```

```
cout <<
"Y:::::Y Y:::::Y0::::::000::::::0UU:::::U U:::::UU LL::::::LL
cout << "YYY:::::YYY0:::::0 0:::::0
U:::::U U:::::U L:::::L
TTTTTT T:::::T TTTTTT\n";
cout << " Y:::::Y Y:::::Y 0::::0
U:::::D D:::::U L:::::L
cout << " Y:::::Y:::::Y 0::::0 0:::::0
U:::::D D:::::U L:::::L
S::::SSSS T::::T \n";
cout << " Y:::::::Y 0::::0 0::::0
U:::::D D:::::U L:::::L
cout << " Y::::::Y 0::::0 0::::0
U:::::D D:::::U L:::::L
cout << " Y:::::Y 0::::0 0::::0
U::::D D:::::U L::::L 0:
 T:::::T \n";
cout << " Y:::::Y 0::::0
U:::::D D:::::U L:::::L
S T:::::T \n";
cout << " Y:::::Y 0:::::0 0:::::0
U:::::U U:::::U L::::L LLLLLO:::::0
cout << " Y:::::Y 0::::::000::::::0
S TT:::::TT \n";
cout <<
cout <<
" Y::::::Y 00::::::00 UU:::::::UU
                         T::::::T \n";
::::L 00:::::::00 S::::::::::SS
cout <<
" YYYYYYYYYYYY
              cout << endl ;</pre>
cout << endl ;</pre>
cout <<
                                 ***
***** \n ";
cout <<
                               ***
♦♦♦ \n ";
```

```
cout <<
                               ***
                                               ••
**** \n ";
cout <<
                               ***
                                               ••
**
cout <<
                                               •
                              ***
*** \n ";
cout <<
                              ***
                                             ***
♦♦♦ \n ";
cout <<
                                    ***
�� ���� \n ";
cout <<
                                    ***
                             ***
                                             ***
�� ��� \n ";
cout <<
                             **
                                    ***
                                            ***
 ♦♦♦ \n ";
cout <<
                             **
��� \n ";
cout <<
                             **
♦♦♦ \n ";
cout <<
                             **
��� \n ";
cout <<
                             **
                                      ***
♦♦♦♦ \n ";
cout <<
                             ***
                                    ****
    ♦♦♦ \n ";
cout <<
                              **
                                    ***
                                            ***
 **** \n ";
cout <<
                                    **
                                             **
                              ***
**** \n ";
cout <<
                              ***
                                              ••
♦♦♦ \n ";
cout <<
                               ***
                                               ••
♦♦♦ \n ";
```

```
cout <<
                                               ***
***
cout <<
                                                 ****
***
//This prints the dice of the luck in this game
void printDice(int middleNum)
 cout << ".....\n" ;
 cout << "..@@@@@@@@@@@@@@@@@@@@@@@@@@@.\n" ;
 cout << "..@@@@@@@@@@@@@@@@@@@@@@@@@..\n"
 \verb"cout" << "..@@@@@@@@@@@@@@@@@@@@@@@@@@@@..\n"
 cout << "..@@@@@@@@@@@@@@@@@@@@@@@@@..\n"
 cout << "..@@@@@@@@@@
                       @@@@@@@@@@@..\n" ;
 cout << "..@@@@@@@@@@@ "<<middleNum<<" @@@@@@@@@@@@..\n";
 cout << "..@@@@@@@@@@
                     @@@@@@@@@@..\n" ;
 cout << "..@@@@@@@@@@@@@@@@@@@@@@@@@@@..\n"
 \mathsf{cout} \mathrel{<<} ".. @@@@@@@@@@@@@@@@@@@@@@@@@@@.. \\ \verb|\n"}
 cout << "...@@@@@@@@@@@@@@@@@@@@@@@@@..\n" ;
 cout << ".....\n" ;
//This contains the animation of the dice.
void dice anim(int num)
 system("CLS");
 for(int i = 0; i < 300; i++)
   printDice(i%7);
   usleep(100);
 system("CLS");
 printDice(num);
// This contains the logic to multiply the user score.
void multiplyScore()
 int multiplier = abs((userScore % 6) + 1);
 dice anim(multiplier);
 usleep(999999);
 usleep(999999);
 cout << "Your previous score : " << userScore;</pre>
```

```
usleep(999999);
userScore *= multiplier;
cout<< "\nYour current score : " << userScore<<"\n\n";
usleep(999999);
usleep(999999);
}</pre>
```

-End-



Team members – Group 3

- Tharuka Sandaruwan IM/2019/023
- Isal Laksika IM/2019/067
- Pasindu Malshan IM/2019/009
- Savindu Harith IM/2019/025

bpy.context.selected\_0

OPERATOR CLASSES