Snake and Ladder Game

Prepared by

Yash Shah(16IT129)

Jeet Soni(16IT134)

Under the supervision of

Prof. Ravi Patel

Assistant Professor

A Report Submitted to

Charotar University of Science and Technology

for Partial Fulfillment of the Requirements for the

Degree of Bachelor of Technology in Information Technology

5 th Semester Software Group Project-II

Submitted at

DEPARTMENT OF INFORMATION TECHNOLOGY

Chandubhai S. Patel Institute of Technology

At: Changa, Dist: Anand – 388421 November 2018

CERTIFICATE

This is to certify that the report entitled "**Snake and Ladder Game**" is a bonafied work carried out by **Mr. Yash Shah (16IT129) and Mr. Jeet Soni 16IT134)** under the guidance and supervision of **Prof. Ravi Patel** for the subject **Software Group Project-II(IT345)** of **5th** Semester of Bachelor of Technology in **Information Technology** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate **themselves** has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

Under supervision of,

Prof. Ravi Patel

Assistant Professor

Dept. of Information Technology

CSPIT, Changa, Gujarat.

Prof. Parth Shah

Head & Associate Professor

Department of Information Technology

CSPIT, Changa, Gujarat.

TABLE OF CONTENTS

LIST OF FIGURES

Abbreviations

ALU	**Arithmetical & Logical Unit**
SDLC	**Software Development Life Cycle**
α	**Symbolic Speed**
β	**Efficiency**

ABSTRACT

This project aims to bring the fun and simplicity of snake game with some new features. The features like dice rolling. It will also have the multiplayer feature that will allow more than one players to play the game over a network.

ACKNOWLEDGEMENT

We are extremely thankful to our internal guide **Mr. Ravi Patel** whose constant support and helping attitude towards the students has always provided us the strength to complete the task efficiently and rapidly. We sincerely thank Sir for his expert guidance and encouraging us throughout this project work.

INTRODUCTION

The board game, today called Snakes and Ladders, originated in ancient India, where it was known with the name Mokshapat or Moksha Patamu. It's not exactly known when or who invented it, though it's believed the game was played at a time as **early** as 2nd century BC.

Project Overview

Snakes and Ladders (also known as Chutes and **Ladders**) is a classic children's**game** played on a square grid board. The objective is to be the first player to reach the highest numbered spot on the top row (100th tile). **Snakes** or other perils can set you back, while **ladders** or other boons can help you advance quickly.

Scope

- It is a multiplayer snake and ladder game.

Overview

- The user should have basic knowledge of how to play the game.

SYSTEM ANALYSIS

First of all we have design welcome page in that which we have taken 4 buttons and two textbox and two label with name of player we have redirected that name of user to game page user name that by taking mode of textbox as public and that automatic it will take name and then we taken 8 picture box ; 6 for dice and 2 for different counter and then we have two differ other button restart and exit for game .

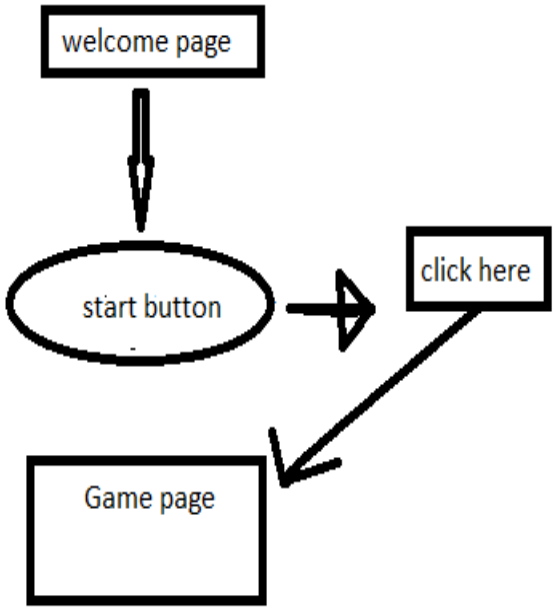


Fig: 2.1 system flow

TOOLS and TECHNOLOGY

We have used visual studio 2015 for making this game through learning c# Dot net Programming.

SYSTEM DESIGN

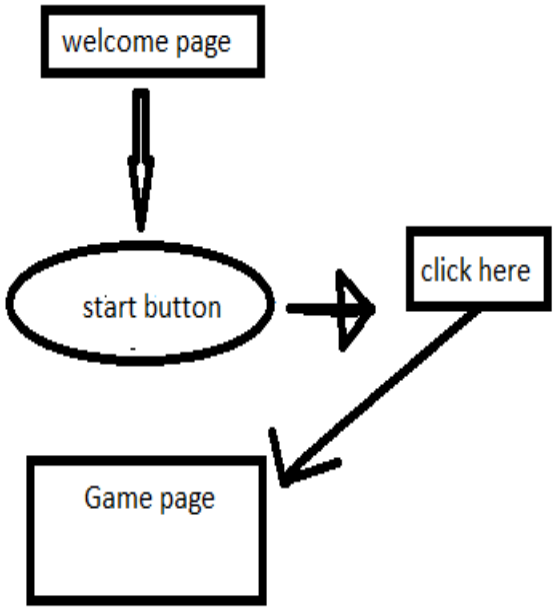


Fig: 3.1 Block diagram

First of all we have design welcome page in that which we have taken 4 buttons and two textbox and two label with name of player we have redirected that name of user to game page user name that by taking mode of textbox as public and that automatic it will take name and then we taken 8 picture box 6 for dice and 2 fordifferent counter and then we have two differ other button restart and exit for game .

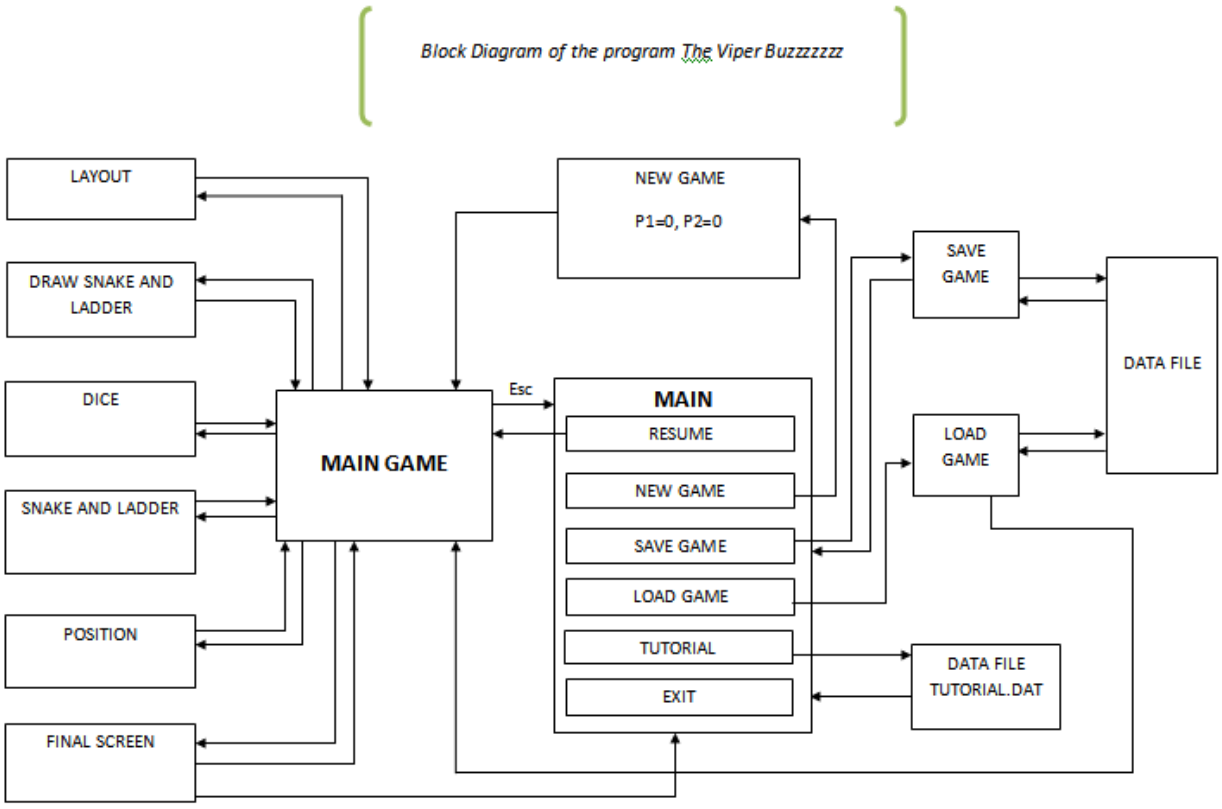


Fig: 3.2 Flow diagram

IMPLEMENTATION

In this project we had make a snake and ladder game in that wehave create a 2 pages a welcome page and game page in that 1)

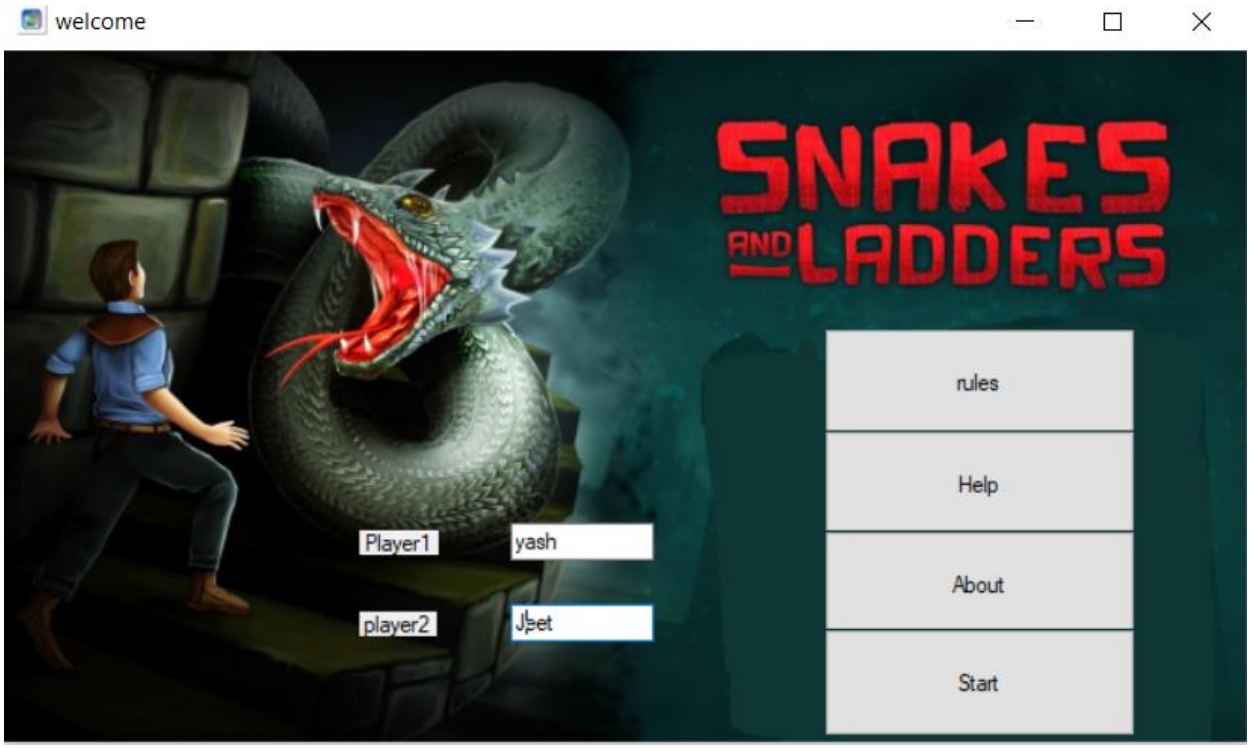
- Welcome page : we have taken 4 buttons 2 labels and 2 textbox
- Button1: Rules : rules for a game
- Button2: Help : link how to play game ,facebook, instragram blogs of developer:
- Button3:About: developer name and version of game
- Button 4: start : It will redirect to game page with the name of players which we had written in player1 and player 2 of textbox of welcome page

Game Page:

- Take 2 button take 10 picture box and name of user which we had written in textbox of welcome page.
- Make a random function for a dice :
- How we get a random value of dice randomly by random function .
- Then we have have to create a class of player classlocation
- For counter to move form 1 to 100 tiles
- And then we have taken different for loop for snake and ladder for knowing where snake and where ladder if snake then counter will come down as per given instruction and same for ladder but it will goes upside as per instruction.
- Then we have 2 button
- Button1: Restart : It will restart the game from intial point
- Button2: Exit: It will exit the game

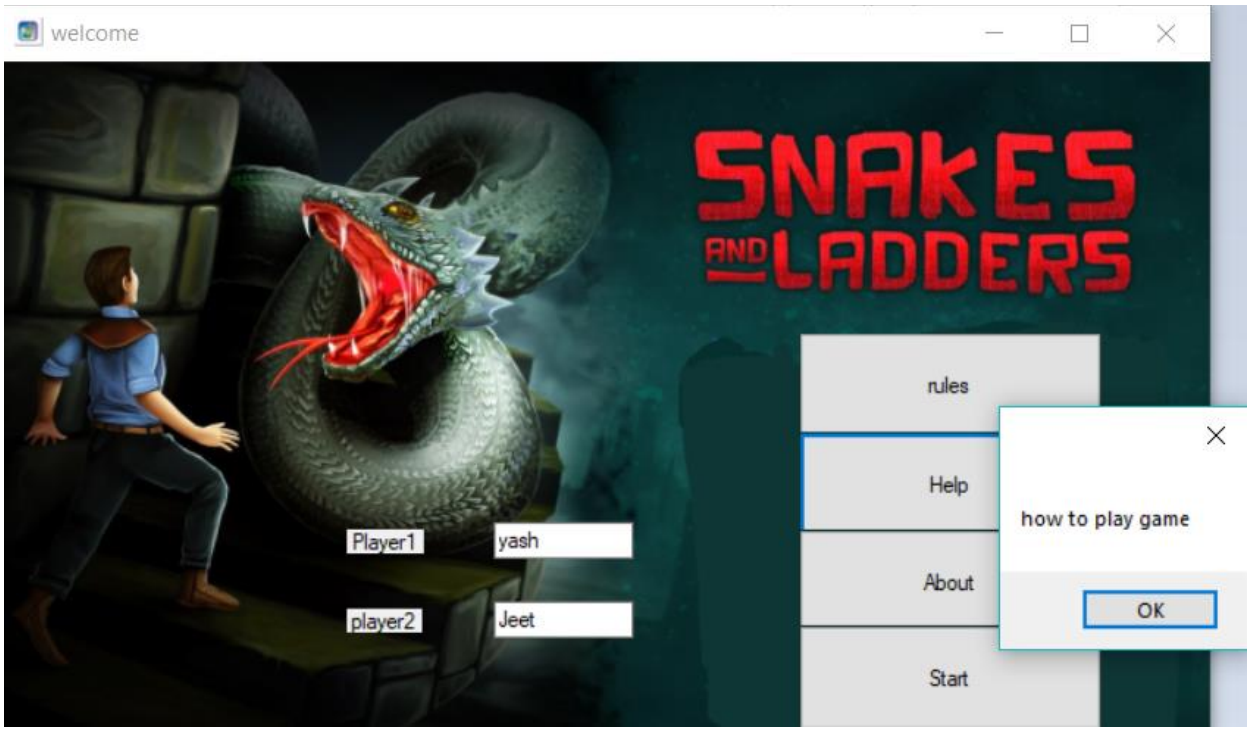
Output:

- Welcome page:



- After pressing rules button:

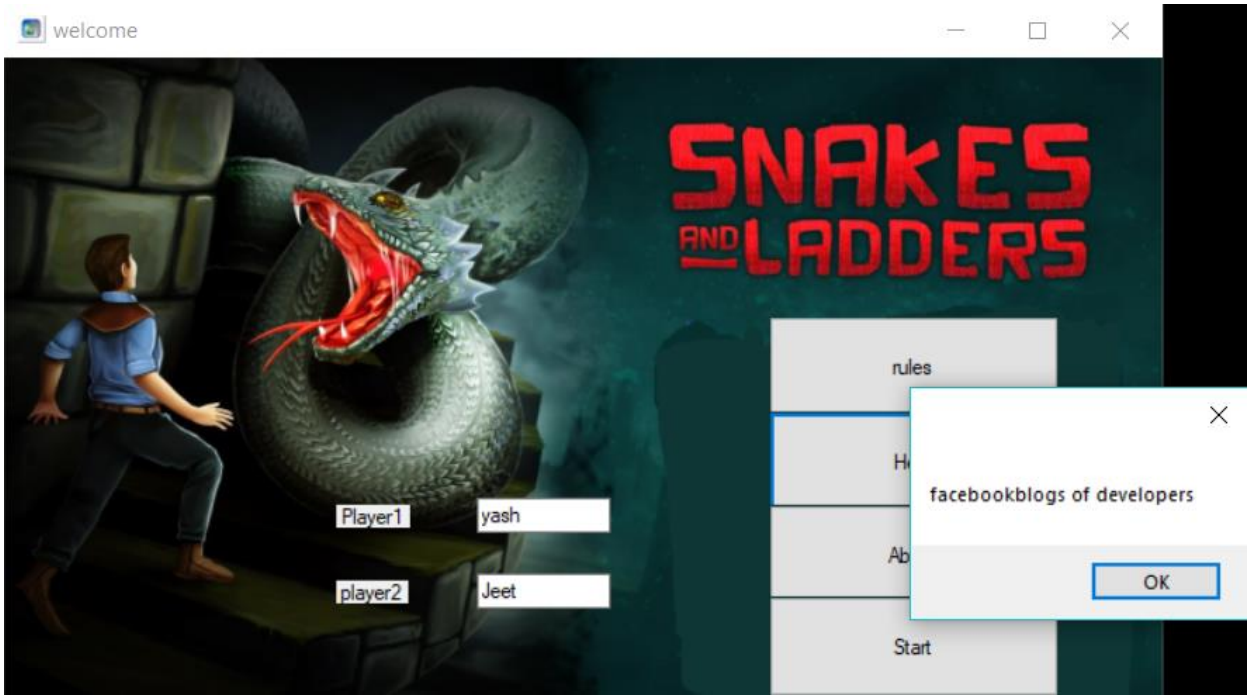
- After pressing help button:



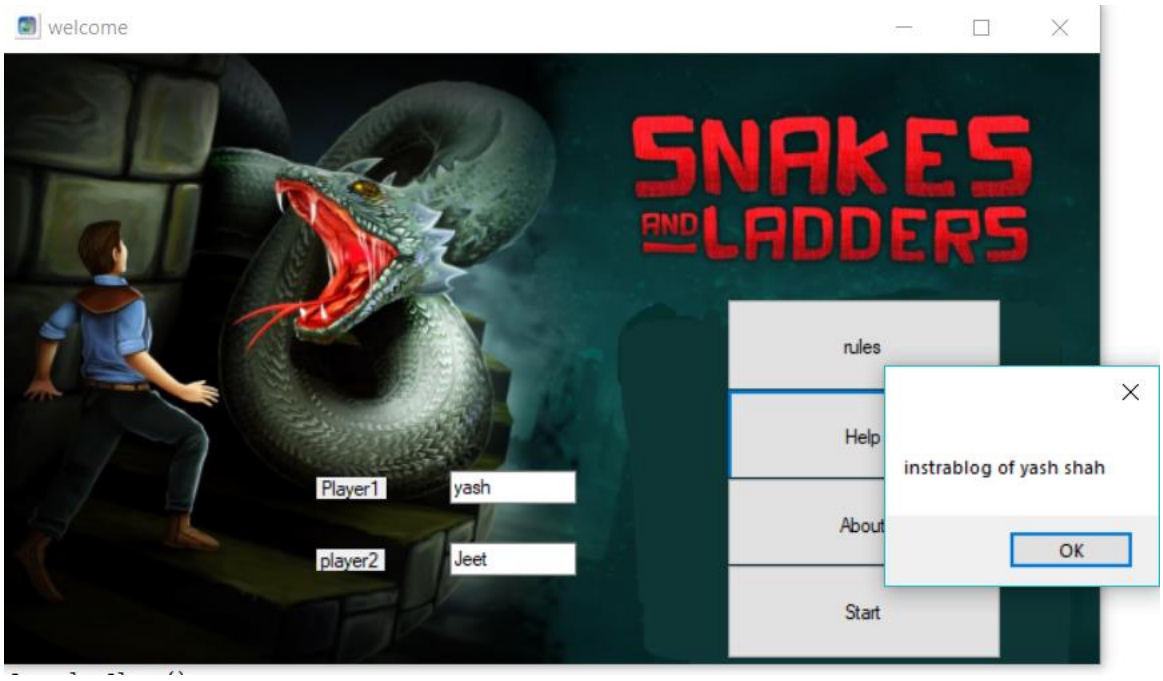
- How play a snake ladder game youtube link:

How To Play Snake And Ladder Game

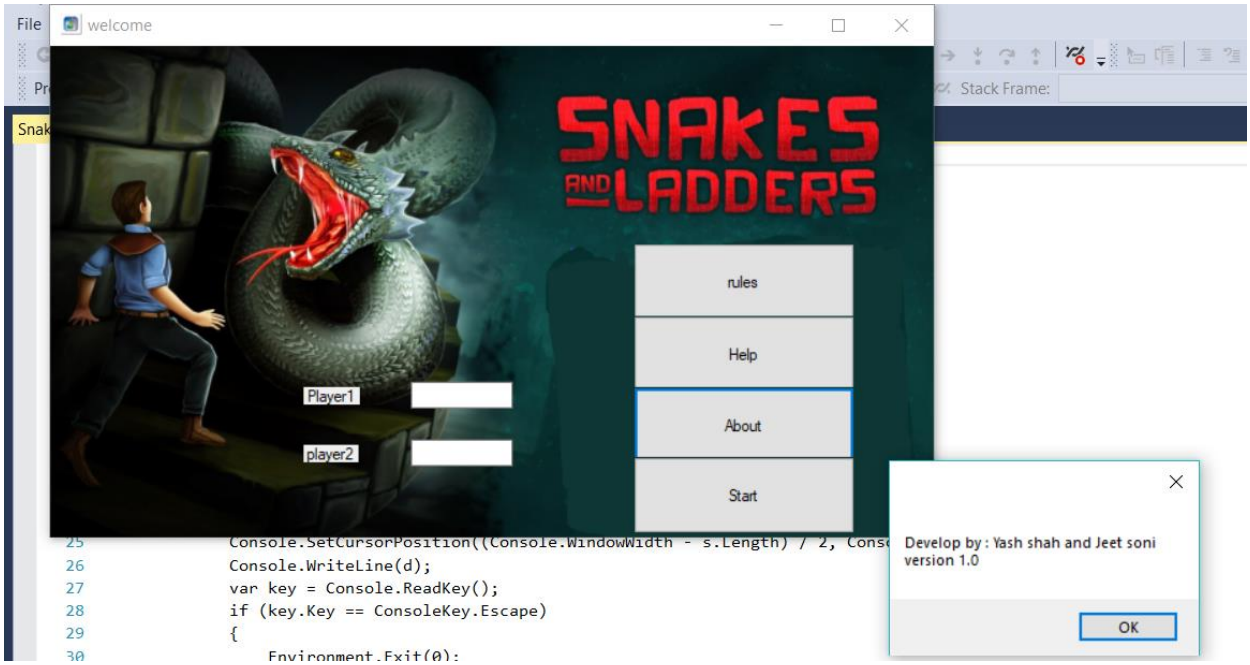
- Facebook blog for developers :



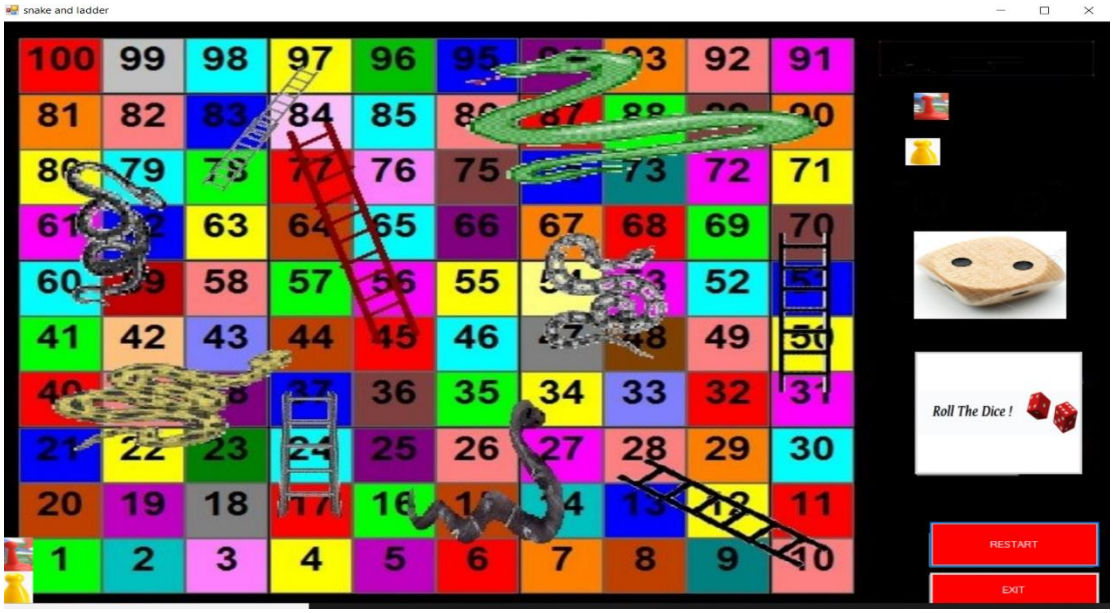
- Instablog for users:



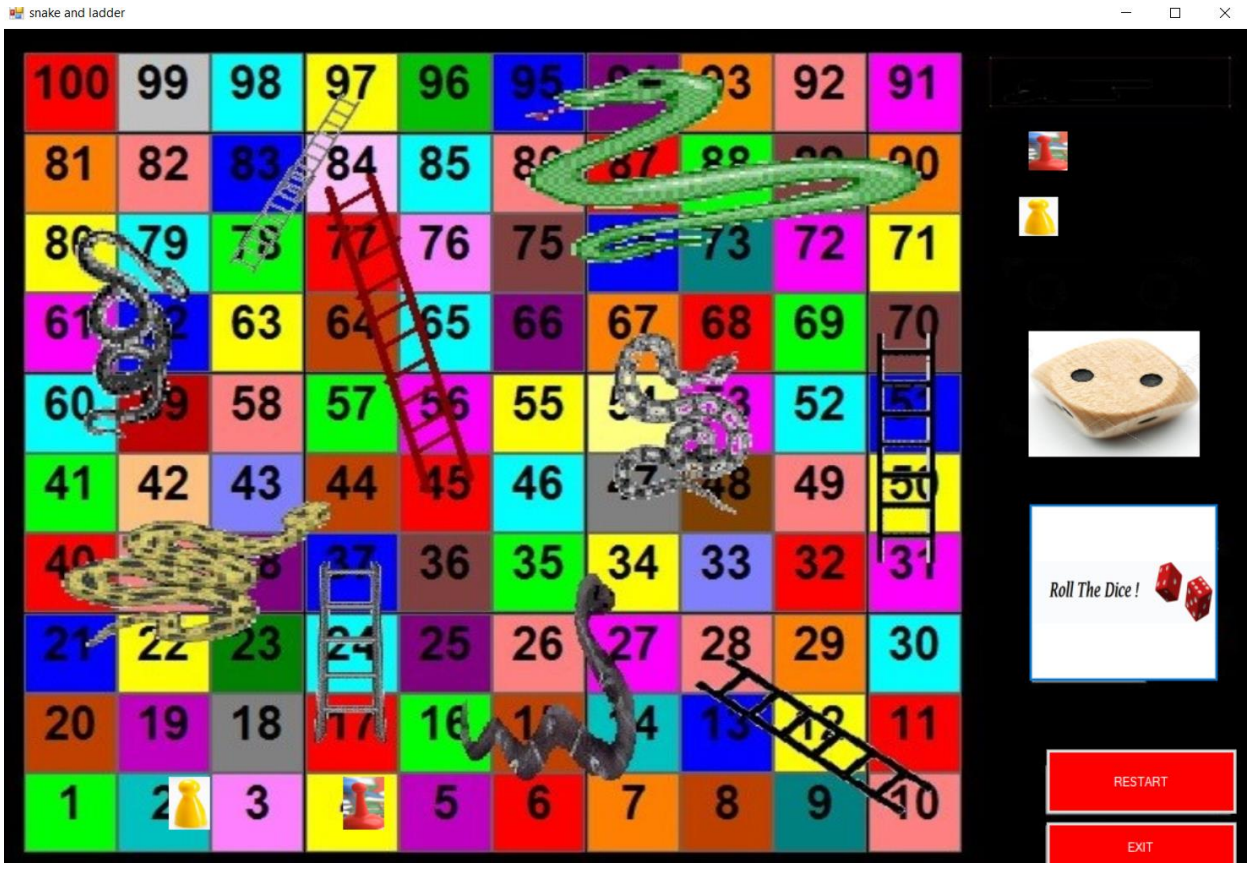
- After pressing About button:



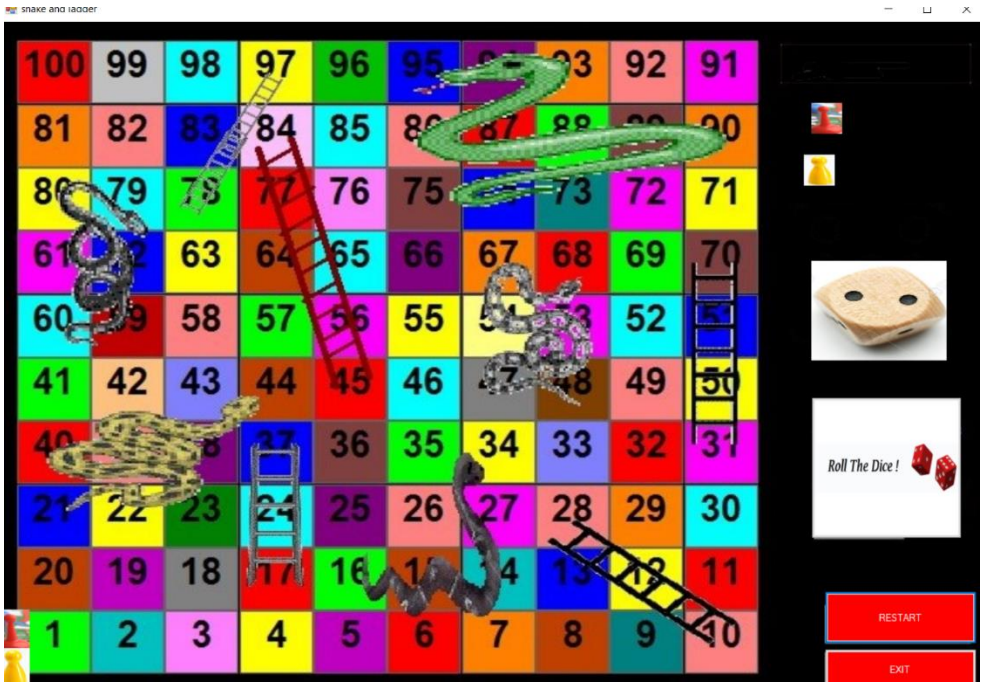
- Game start :



- After start:



- After pressing Restart button:



METHODOLOY

Following flow explains the methodology of proposed System:

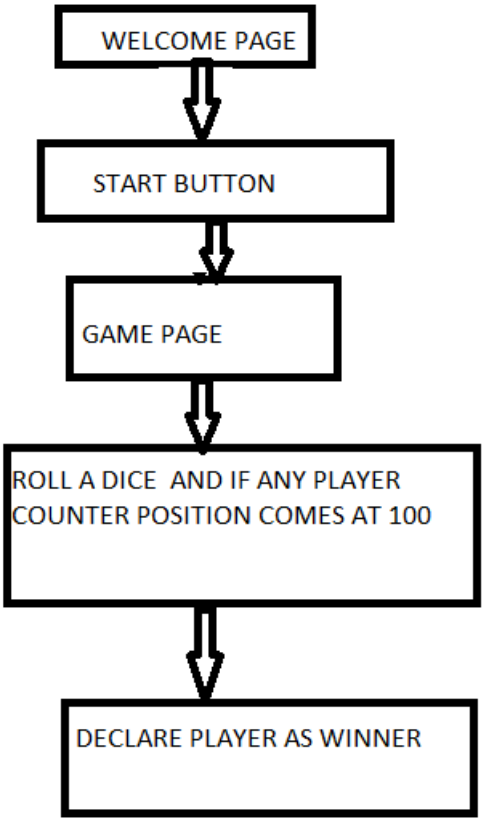


Fig : 4.1 Methodology Diagram

Future Enhancement

We will try to make 3D game and four player game and also would add a computer player .

Conclusion

By using .net c# window application we have created this snake and ladder game,

Reference

https://www.youtube.com/

https://www.w3schools.com/asp/webpages_intro.asp