

**JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, SECTOR 62,  
NOIDA**



**SOFTWARE DEVELOPMENT LAB**  
**MINIPROJECT**  
**ARCADE**

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# INTRODUCTION

Object-oriented programming (OOP) is a computer programming model that organizes software design around data, or objects, rather than functions and logic. An object can be defined as a data field that has unique attributes and behavior. OOP focuses on the objects that developers want to manipulate rather than the logic required to manipulate them. This approach to programming is well-suited for programs that are large, complex and actively updated or maintained. This includes programs for manufacturing and design, as well as mobile applications; for example, OOP can be used for manufacturing system simulation software. C++ is a general-purpose programming language created by Danish computer scientist Bjarne Stroustrup as an extension of the C programming language, or "C with Classes". The language has expanded significantly over time, and modern C++ now has object-oriented, generic, and functional features in addition to facilities for low-level memory manipulation. It is almost always implemented as a compiled language, and many vendors provide C++ compilers, including the Free Software Foundation, LLVM, Microsoft, Intel, Oracle, and IBM, so it is available on many platforms.

# ABSTRACT

The program focuses on running five games, namely Hangman, Tic-tac-toe, Snake game, Casino and Rock Paper Scissors. It's a gaming console where one can play multiple game with opponents based on her choice and enjoy. It's a fun place to enjoy 1 on 1 battle to check their skill luck and knowledge. Every game has its own way of playing. The program is in CPP language and uses the concepts of object-oriented programming. Some of the concepts are inheritance, polymorphism and STL. Most of the code is written in main function, but many important functions and classes have been declared outside the main function as well. The first output screen is the menu from where the user selects the game that they want to play by entering the number designated to each game.

# Design of the Project



