**Object Oriented Approach**

**Activity : Code Project**

**1. Project Title: Bus Reservation System**

**2. Team Members:**

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| Team Member Name 1 – Kriti Shahi | Team Member 1 Roll No - 1610991466 |
| Team Member Name 2 – Malkeet Kaur | Team Member 2 Roll No - 1610991482 |
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**3. Motivation behind idea (if found any):**

Bus reservation system is a system which helps in maintaining details of the buses as well as passengers. The method used in bus reservation system is manual. So the focus of the project is to make computerized bus reservation system. By using this proposed system transactions will become fast and there will be almost no chances of any error while generating the bill, displaying the information of the passenger etc.

**4. Object Oriented Features included are:**

* Classes and Objects
* Inheritance
* Polymorphism
* Virtual Functions

**5. Diagrammatic Representation:**

**CLASS BUS**

Class BUS

**CLASS PASSENGER**

**CLASS SEAT**

**CLASS RENT**

**CLASS TICKET**

**6. Brief Description of the project:**

This system allows to book the seat the by entering the details like bus no., starting point, destination and type (AC or Non AC bus),name of the passenger, mobile number, departure, arrival etc using the concept of inheritance. The number of seats as well as seat numbers are entered by user for reservation. If the seat is already booked then that seat is represented by 0 otherwise some other number (1-25). The bill is calculated on the basis of type (AC or Non AC) bus and number of seats booked.In the end all the information is displayed in the form of ticket.