1. What is the difference between an *Instance variable* and a *Class Variable*?   **[2]**

2. What is *this*?   **[2]**

3. Define a class called ***ParkingLot*** with the following description:

   Instance Variables/ Data Members -

   int vno: to store vehicle number

   int hours: to store the number of hours the vehicle is parked in the parking lot

   double bill: to store the bill amount

   Member Methods:

   void input(): to input vno and hours

   void calculate(): to compute the parking charge at the rate 3 for the first hour or the part thereof and 1.50 for each additional hour or part thereof.

   void display(): to display the details

   Write a main method to create an object of the class and call the above methods.   **[15]**

4. Define a class to accept a number. Check if the sum of the largest digit and the smallest digit is an even number or an odd number. Print the appropriate message.

   Sample input: 6425

   Largest digit: 6

   Smallest digit: 2

   Sample output: Sum is even   **[15]**