Inventory Management System

A. Database Design

1. Create a database with the name 'ProductsDB' using MS SQL Server on your machine locally.
2. Create a table called 'Products' in 'ProductsDB' database using the following specifications.

Column Name	Data Type	Constrains / Specification
PRODUCTID	INT	IDENTITY(101,1) , PRIMARY KEY
PRODUCTNAME	VARCHAR(25)	Not Null
DESCRIPTION	VARCHAR(50)	Allow Null
AVAILABLEQUANTITY	INT	Not Null
UNITPRICE	INT	Not Null

B. System Design

1. Create below given auto implemented properties in '**Product**' class

   o public int ProductID {get; set;} o

   public string ProductName {get; set;} o

   public string Description {get; set;} o

   public int Quantity {get; set;} o public

   int UnitPrice {get; set;}

2. Create below given methods in '**Product**' class

Methods	Description
public bool ADDProduct(Product obj)	Inserts a product into 'Products table and returns 'true' if product inserted else 'false'.
public bool ModifyProduct(Product obj)	Updates a product from 'Products' table and returns 'true' if updated else 'false'.
public bool DeleteProduct(int productID)	Deletes a product from 'Products' table and returns 'true'

	if deleted else 'false'.
Public Product ViewProduct(int productID)	Returns details of a product depending on its 'ProductID'
Public List<Product> ViewAllProducts()	Returns all products from 'Products' table

Connection sting to Use:

Data Source=.;Initial Catalog=ProductsDB;User ID=sa;Password=wipro@123