Mid-Monthly Evidence Test

1. Create a program that reads a sequence of integer until a negative integer is input, and then prints the sum of the positive integers.

2. Find out factorial value of 5.

3.

    a. Create a super class called Vehicle. The Vehicle class has the following fields and methods.
int speed;
double regularPrice;
String color;
double getSalePrice();

    b. Create a sub class of Vehicle class and name it as Truck. The Truck class has the following fields and methods.

    int weight;

    Now override the double getSalePrice() method from its super class and apply the following logic – if weight>2000, 10% discount. Otherwise, no discount on regularPrice.

4.

    a. Create a super class called Product. The Product class has the following fields and methods.
String name;
double regularPrice;
Product (String name, double regularPrice);
double getSalePrice();

    b. Create a sub class of Product class and name it as ElectronicProduct. The ElectronicProduct class has the following fields and methods.

    int warrantyPeriod;

    Now override the double getSalePrice() method from its super class and apply the following logic – if warrantyPeriod is grater than 1 year, apply a 15% discount on regularPrice. Otherwise, no discount.