**Company *ShoesOnline* sells shoes for men, women and kids.**

**Write a console-based application for Site Admin to perform following tasks:**

**1. Add a new Shoe**

**2. Update price of a Shoe**

**3. Update stock of a Shoe**

**4. Remove Shoes which are out of stock for last 4 months**

**5. Remove Shoes which are never sold in 6 months**

You can define a class **Shoe** with following fields –

1. ID (unique identifier for each Shoe, should be generated automatically)
2. Category (Should be Enum, Example: MENS\_RUNNING\_SHOES, MENS\_WALKING\_SHOES, MENS\_SNEAKER etc.)
3. Listing Date (day on which Shoe is added to site for sale)
4. Stock (Available quantity)
5. Stock Update Date (it changed every time when admin update stock or user’s order executed)
6. Size (Example: 4, 4.5, 5, 5.5, 6, 6.5, etc.)
7. Price (in INR)
8. Color
9. Discounts (in percentage)

**Marks Distribution:**

* Basic structure of program including class Shoe, Enums etc. [**10 Marks]**
* Implementation of functionality 1 [**5 Marks**]
* Implementation of functionality 2 [**5 Marks**]
* Implementation of functionality 3 [**5 Marks**]
* Implementation of functionality 4 [**5 Marks**]
* Implementation of functionality 5 [**5 Marks**]
* Java naming convention, exception handling [**5 Marks**]