**Consider the following CFG for non empty language:**

**S1 → S**

**S → aSb|BB|BCD |ab|BC**

**A → DD | B | BCB | D | ε**

**B → AB |C | ε**

**C → Cc|c**

1. **Simplify showing each steps clearly.**

**Consider the following CFG for non empty language:**

**S → ABC|BaB|**

**A → aA | BaC |aaa**

**B → bBb |a |D**

**C → CA|AC**

**D → ε**

1. **Simplify showing each steps clearly with correct ordering.(kindly label your steps neatly)**