$$\Delta Q = \Delta U + \Delta W$$

$$0 = \Delta U + (-4.350)$$

$$\Delta U = 4.35 J$$

EXAMPLE: 50 cal of heat should be supplied to take a system from the state A to the state B through the path ACB as shown in figure. Find the quantity of heat to be supplied to take it from A to B via ADB.

$$\Delta Q_{ADB} = ?$$

