Assertion A : If in five complete rotations of the circular scale, the distance travelled on main scale of the screw gauge is 5 mm and there are 50 total divisions on circular scale, then least count is 0.001 cm.

Reason R :

Least Count = $\frac{Pitch}{Total\ divisions\ on\ circular\ scale}$

In the light of the above statements, choose the most appropriate answer from the options given below :

A A is not correct but R is correct.

B Both A and R are correct and R is the correct explanation of A.

C A is correct but R is not correct.

D Both A and R are correct and R is NOT the correct explanation of A.

Explanation

Least Count = $\frac{Pitch}{Total\ divisions\ on\ circular\ scale}$

In 5 revolution, distance travel, 5 mm

In 1 revolution, it will travel 1 mm.

So least count = $\frac{1}{50}$ = 0.02