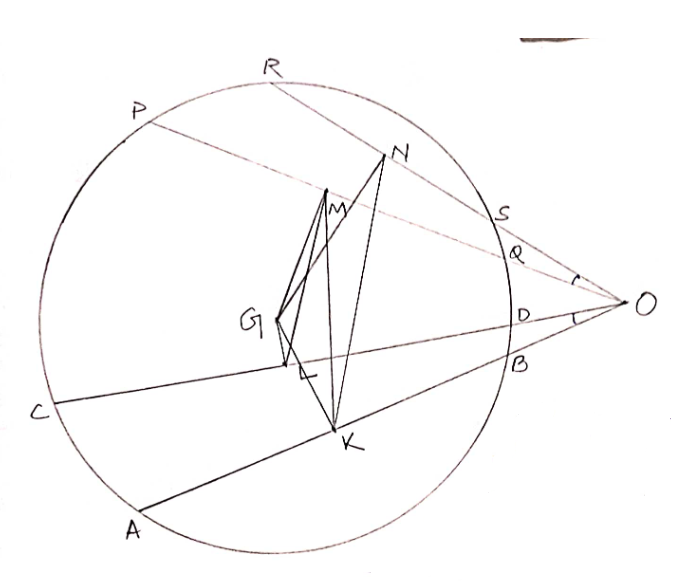
**SECOND PRIZE WINNER MR.HRUDHANANDHA BHOI’S SOLUTION**

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**Given : O is a point outside the circle. , are 4 chords of the circle. K,L,M,M are midpoints of , respectively and**

**Claim :**

**Construction :**

**are constructed where G is the centre of the circle.**

**Proof:**

**K,L,M,N are midpoints of ,**

**, , ,**

**= 90**

**As = = 90+ 90 = 180**

**G, M, O, K are Cyclic & G, N, O, K are cyclic and G, N, O, L are cyclic & G, M, O, L are cyclic. We can draw only one circle through three non collinear points. So, all these points are on the same circle.**

**K, L, G, M, N, O are on the same circle**

**(as**

**-------------------- Proved.**