Ks Test (Test for Uniformity) Steps:- SI: Define the hypothesis for uniformity Ho: $R_i \sim U[0,1]$ H, $R \sim U[0,1]$ S2:- Arrange dota in ascending enotes $R_i = I^m$ smallest integer $R_i = R_2 \leq R_n$ S3:- Compute D^+ & $D^ D^+ = \max Q(I) - R_i Q(I) = I \leq I \leq N$ $D^- = \max Q(I) - R_i Q(I) = I \leq I \leq N$ S9 Rompute D_i and D_i specific D_i value. S5, Compute D_i two specific D_i value. D_i specific D_i value.	
Steps:- S1: Define the hypothesis for uniformity Ho: $R_{i} \sim U[0,1]$ H, $R \neq U[0,1]$ S2: Arrange dota in ascending order $R_{i} = i^{m}$ smallest integes $R_{i} = k_{2} \leq k_{n}$ S3: Compute $D^{+} = k_{0}$ $D^{+} = mox = \{(i) - k_{i}\}^{2} = i \leq N$ $D^{-} = max = \{(i) - k_{i}\}^{2} = i \leq N$ S4 Rompute $D_{colc} = Max = (D^{+}, D^{-})$	KS Test (Test for Uniformity)
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Ho: $R_{i} \sim V[0,1]$ H, $R \neq V[0,1]$ S2:- Arrange dota in ascending order $R_{i} = I^{m}$ smallest integes $R_{i} = R_{2} \leq R_{n}$ $S3:-$ Compute D^{+} & D^{-} $D^{+} = \max \left\{ \left(\begin{array}{c} I \\ N \end{array} \right) - R_{i} \stackrel{?}{}_{3} \stackrel{?}{}_{1} \leq i \leq N $ $D^{-} = \max \left\{ \begin{array}{c} R_{1} - \left(\begin{array}{c} I - I \\ N \end{array} \right) \right\} \mid \leq i \leq N$ $S4$ Compute D core = Max (D^{+}, D^{-}) .	SI: Define the hypothesis for uniformity
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52 - Amarige dota in ascending order $R_i = i^{\text{m}}$ smallest integer $R_i = R_2 \leq R_n$ $S_3 - Compute b + GD^ D^+ = \max Q - (i) - R_i Q - 2 \leq i \leq N$ $D^- = \max Q - (i-1) Q - 2 \leq i \leq N$ $S_4 - Compute D = Max (D^+, D^-)$	
$R_{i} = i^{m}$ smallest integer $R_{i} = R_{2} \leq R_{n}$ $S_{3} = R_{0}$ $S_{3} = R_{0}$ $S_{4} = R_{2} \leq R_{n}$ $S_{5} = R_{2} \leq R_{n}$ $S_{5} = R_{2} \leq R_{n}$ $S_{7} = R_{0}$ $S_{8} = R_{2} \leq R_{n}$ $S_{7} = R_{0}$ $S_{8} = R_{2} \leq R_{n}$ $S_{8} = R_{2} \leq R_{2}$ $S_{8} = R_{2} \leq R$	H, R & U LO, U
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S3: Compute D^+ & D^- $D^+ = \max \left\{ \left(\begin{array}{c} i \\ N \end{array} \right) - R_i \right\} 1 \leq i \leq N$ $D^- = \max \left\{ \left(\begin{array}{c} i \\ N \end{array} \right) - \left(\begin{array}{c} i - 1 \\ N \end{array} \right) 1 \leq i \leq N$ $S4 \text{Compute} D \text{Code} = \text{Max} (D^+, D^-).$	
S3: Compute D^+ & D^- $D^+ = \max \left\{ \left(\begin{array}{c} i \\ N \end{array} \right) - R_i \right\} 1 \leq i \leq N$ $D^- = \max \left\{ \left(\begin{array}{c} i \\ N \end{array} \right) - \left(\begin{array}{c} i - 1 \\ N \end{array} \right) 1 \leq i \leq N$ $S4 \text{Compute} D \text{Code} = \text{Max} (D^+, D^-).$	R: = 1" smallest integes
S3:- Compute D^+ & D^- $D^+ = \max \left\{ -\left(\frac{1}{N}\right) - R; \frac{2}{3} \right\} = \frac{1}{2} \leq i \leq N$ $D^- = \max \left\{ -\left(\frac{1}{N}\right) - R; \frac{2}{3} \right\} = \frac{1}{2} \leq i \leq N$ $84 \text{Compute} D \text{Colc} = \text{Max} (D^+, D^-)$	
S3:- Compute D^+ & D^- $D^+ = \max \left\{ -\left(\frac{1}{N}\right) - R; \frac{2}{3} \right\} = \frac{1}{2} \leq i \leq N$ $D^- = \max \left\{ -\left(\frac{1}{N}\right) - R; \frac{2}{3} \right\} = \frac{1}{2} \leq i \leq N$ $84 \text{Compute} D \text{Colc} = \text{Max} (D^+, D^-)$	$R_1 \leq R_2 \leq R_n$
$D^{+} = \max \left\{ -\left(\frac{1}{N}\right) - R; \right\} 1 \leq i \leq N$ $D^{-} = \max \left\{ -\left(\frac{1}{N}\right) - R; \right\} 1 \leq i \leq N$ $S4 \text{Compute} D \text{Colc} = \text{Max} (D^{+}, D^{-})$	
$D' = max$ $S: R_1 - (i-1)$ $3 \le i \le N$ $S: A result D colc = Max (D^+, D^-)$	S3:- Compute CD+ & D
$D' = max$ $S: R_1 - (i-1)$ $3 \le i \le N$ $S: A result D colc = Max (D^+, D^-)$	
$D' = max$ $S: R_1 - (i-1)$ $3 \le i \le N$ $S: A result D colc = Max (D^+, D^-)$	D'= max 9-(1)-R: 4 1 = 1 = N
84 rempute D colc = Max (bt, Dt)	
	$D = \max_{i=1}^{n} \delta_{i} k_{i} - (i-1) \delta_{i} \leq i \leq N$
	84 Compute Day = Max (pt, pt)
SS, Compute Deux for specfic & value.	
Ptab = Dx	SS, Compute D. for specfic & value.
	Dtab = Dx

S6: 17 D < Das tab accept 40, else reject 40. # Numerical L The sequence of numbers 0.63, 0.49, 0.24; 0.57 0.71, 0.89 has been generated.

At d = 5.1. use ks Test to Check the uniformity S; Define Hypothais

Ho: RUN U [0,1]

H,: R Y U [0,1] Sz Arrange nos in ouscending ordez
0.24, 0.49, 0.57, 0.63, 0.71, 0.89 S3. Compute D+ & D 0.24 0.49 0.87 Ru) .17 .33 .50 .67 0.83 (1/N-Ri) .04

D+ = max (0.4,.12,-11) = 0.12 D=max (.24, .32, .24, .13, 0.4, .06)= 0.32 Sy = D= max (D+, D-) = max (0.13, 0.32) Dcalc = 0.32. SS. Dtap = Dd, N= D0:05= 0:52 N=6 S6 Since D cale / Dtah So accept Mo. stence the generated sequence is uniform. It Numerical 2 Sequence generated 0.81, 0.14, 0.43, 0.05; 0.93, 0.49 confidence level 90%. # 'X= 10.1.

Rardom No Sequence:
0.23; 0.77, 0.078, 0.93, 0.2, 0.58,

0.41, 0.1, 0.37, 0.29, 0.67,

0.88