		Topic:
		WORKShew No. 1
	ON. 1	
		R=4 (1,1), (2,2), (3,3), (1,2), (2,3)4 show that R is reflexive, but neither symmetric nor transting.
	On2-	Le L be the Set of all the lines in a plane and R be the relation in L defined as R= f (Line): Les perpendicular to Ly Show that R & Symmetric but neither reflexe non transiture
		and R be the relation in L difined as
		R= (Line): Les perpendicular to Ly Show
		that R to symmetric but neither reflexe nos
		transitur
	ON 3-	Relation R in Set A = {1,2,3, 174 defined as  R= { (7,4): 34-y = 0}.  Chein whether R is Symmetric, reflere or transistre
		$R = \{ (x,y): x-y = a \}$
		Chein whether R is Symmetric, leftern or transitive
		R=1 (24): 4 - Aut 14 - 1 - 21 - 21 - 21 - 21 - 21 - 21 -
		Charles Inthese Programme To 11/100 - Anno 1
		Relation R ex the set A = {1,2,3,4,5,6} defined as  R = {(4,4): J es divisse by 24  Chere whether R es symmetrs, reflexe or transitue.
	01.5	Relation R est the set N (natural NO.S) defined as  R=f(x,y): y=x+5 and x < 4 y  here whether R as Symmetric, reflexes or transitive.
		R= (1/4): y= x+5 and x 244
		here whether R as Symmetric, leftern or transitue
	O1-6-	Relation R in the set A of human beings in a town at a particular time grun by
		town at a parkeulou time grun by
	(i)	Ref (x1,y): x is wife of y/
_	(1)	R= \(\lambda, y): \ta & wife \( y \) \\ R= \(\lambda, y): \ta & \ta father \( y \) \\
		thech in both the Eases, whether R is
		Symmetric, refler or transity.
		(CLASSTINE)

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Q1.7	Snew that the ulahan R ex the set Rg
	leal numbers, défined as
	R= (a,b): a = b2 y is neither, liflerre, nos symmetre,
	nor transitive.
Q1-8	* Check whithe the leight R defined in the set \(\frac{11^2,3,4,5,6}{\tas}\) as $R = \int (a,b): b = a + i \int is$
	Sur $\{1,2,3,4,5,6\}$ as $R=\{(a,b): b=a+i\}$ is
	eflerre, symmetic, or transitur.
	8, 1, 4
(UX- 4-	numbers defined as $R = \int (q,b)$ : $a \leq b \leq u$ as leflexive and transitive but not symmetric
	names agina as $R = \{(a,b): a = b \}$
	regulate and runsing but not symmetric
OA- 10-	Show that the lelahan R defined in the set
	A all q hu triangles as R= { (7,72): T, is
	Similar to Tzy a an equivalence lelation.
	Consider three signt and triangles T, with
,	Sides 3, 4, 5. To write Sides 5-12, 13 and
	To with sieles 6,8,10 which triangles among
	T, T2 and T3 are lebated ?
ON 11-	Show that the sulahan R en tru Set A of points
	en a plane grun by R= { (P,Q): distance
	of the point P From the Osigin & same as
	The distance of the point of from the arrain is
	ces equivalence Mahon. Fasther show fact
	the set y all points leafed to a point p
	en a plane gruen by R= 1 (P,0): distance of the point P from the align is same as the distance of the point a from the align; is as equivalence belation. Further show that the set of all points lefated to a point P as the circle passing through P with
	my: as ann.
On. 12 -	Rulahan R en tre Set A = (NEZ; 0 = x < 144
	(CLASSTIME)

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grun by
R=1(9, 1)= 19-6) 13 my 1+1ph y 54
snow that Ra an equivalence relation
Also And equivalence clair [4]
Ou 13- let A= foi1,2,34, Relation on A defined as
R= ((0,0), (0,1) (0,13) (1,0) (1,1) (2,2), (3,0), (3,3)/ Les Rus leflers 2 Symmetre 2 transite 2
Or 14 lu R be a elahan on the set My nahual neumbers  defined by R= f(n,m): n divides my then R xs  (a) leflexe and symmetric (b) Teansitus & symmetric  (c) efuivalence (d) leflexy, transitus but not symmetric
defined by R= f(n,m): ndivides my then R is
(a) Réflexie and symmetre (b) Teansité & symmetre
CI éluivalence (d) léflery, tronsitus but not symmetre
Q115-2
(i) let R be the ellahon on set N given by  aRb 1/ 20+3b=30 then R=
(2) let R be tre celation on set A = {1,23,4,5}
91cm by
(2) let R be the relation on set $A = \{1, 2, 3, 4, 5\}$ 91 cm by $R = \{(9, b):  a^2 - b^2  < 8 \} \text{ then } R = \frac{1}{2}$