Name	M. Awais
Reg #	SP22 - BCS = 041
Section	A
Insertion	in BST:
100	100
80 5	500 Paseit 40 => 25 500
10 30	10 30
	40
Illustration :	
	00
20/	500 X= 40
10/30	
step # 1	comparing with not node
Root ->	100 400 100 100 10ft = 20
	o 500 goto left = 20
10	
Step at 2 C	ampare with left cheld root
1	500 40) 200 500 goto rigit=30
R∞t → 20	son pato real = 30

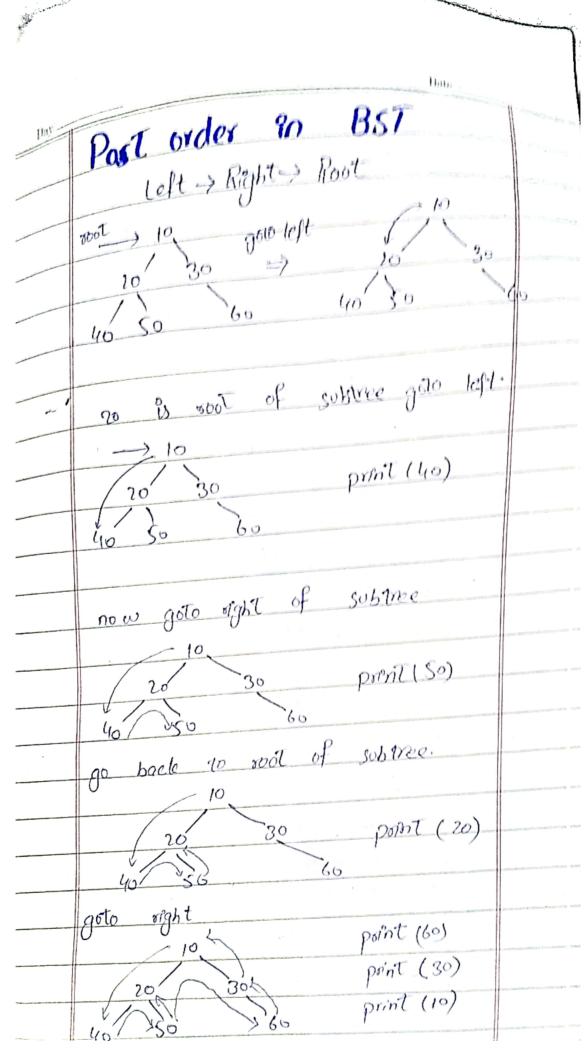
Day:Date:	
Step # 3 comparing with child nost 30	
100 40230	\
20 500 goto night	\
10 30 ← rght	
	_
step # 4 Prisert item as it is leaf	_
20 500	
10 30	
110 inserted node.	
Deletton in BST?	-
case 1 Delete leaf node.	1
50	-
35 70	
20 40	-
Delete 20	+
2= 20	
Compare	+
30 70 X<50 28 x=50	+
20 40	
20 50	-
2 < 30 88 21 = 30	
goto left	
20 40	

Day:	Date
	50 x=20 && x== 20
<i>iii</i>	(-20 30 70
	delete it
	So
iv	Selded 30 70
	20 40
	child
	Case II Delête node with single BST-
	50
	30' 10
	26 40 80
i	Dolete (70)
	replacing 70 with 80.
	50
	30 70 => 30 80
	20 40 30 20 40 70
<u>ji</u>	goto 70 node and delête il-
ő	50.
	30 80 delete
2	20 40 70 K

Day:_	Date:	
	O Case III delête node with	
	both children.	
	So	
-		
-	30 70 /\	
	26 40 60 80	
٩	delete (So)	
	compare so goto right	
	So	
	30 70	
	20 40 80 89	
,		,*
	compare with 70	
	50 Sol 70	
	30 670 goto left	
	2 40 2 80	
	60 60 00	*
	10000 00 101	
	compare with 60	
	60 es loaf nou	e
1	50 swap so with 6	0
	30 70	
	20 40 50 80	
	nou defete so	
	60 deleter	
	20 40 50	1

Day:	Date:
Day	Searching in BST
	60
	30 80
	20 40
	key "3 x=40
	0
	900 YOOT
	root goto left
	30 80
	20 40
	root 60 re= root 00 re> 100t
	30 80 goto right
	20 40
	/
/	. 60
	36 80 n== root 20 40, kg fond
	20 40 (cg -jone)

Day:	Date:
	Preorder Traverse in BST
	→ 10 Root → Left → Right
	20 30
	40 50 60
_	
	20 is noot again point (IP)
	10
	20 30
	40 50 60
)	40 & left and leaf print (40)
=)	acto right
	0
	20 30 print (50)
	40 50 60
	goto right of parent
	goto right of parent
	(20) 30
	40/350 60
	101 30
	These is not left of 30 goto orghi
	10
	10-20-40-50-30-60
	107 30 bo



=Day:_	Date:
	Inorder 90 BST
	Left → root → rght
	->10 goTo left
	700 gold left 20 30 pront (40)
	40 50 60
	left
	goto sost of subtree
	10. print (20)
	100t 20 30
	100 So 60
	goto right of subtree
P	print (So)
	20 30
	40/50 60
	goto to voot of tree
.	10 print (10)
	20 30
-	40/ 50 66
	goto right of tree
-	10- point (30)
	10 30 C
14	56 July 60
_	Left is NULL
-	adio not

40 -> 20-> 50-> 10-> 30->60