	J. Cramman and and
	Name: Suryakant Upadhyay
	Subject: Data Structure.
	PRN :- 20220802043
	Batch: A1
	Theory Assignment 01
	0 1 10 0 1 10 CONT 0
<u> </u>	Sort the given any element using Bubble Bort:
	-2,45,0,11,-9
	T-2, 45,0,11,-9]
	[-2, 45, 0,11,-9]
	T-2 (45) (6) 11-97
	T-2,0,45) (II) -9]
	F(2),00-1
./	[-2,0,11,93]
	[-2,0,11,-9,45] > fixst iteration.
	[3,6,1,-9,45].
	[-2, 0, 0, -9, 45]
7 	[-2,0,-9,0,-9]
	$[-2,0,-9,11,45] \rightarrow Second iteration.$
	[E2, 0, -9, 11, 45]
	[-2,0,9],45].
	[-2,-9,0,0), 45].
	[-2, -9, 0, 0, 0]
	$C-2,-9,0,11,45]. \rightarrow Third Production.$
	[(2), (3), 0, 11, 45]
	[-9,-2,0,11,45] -> fowth Poteration
11	

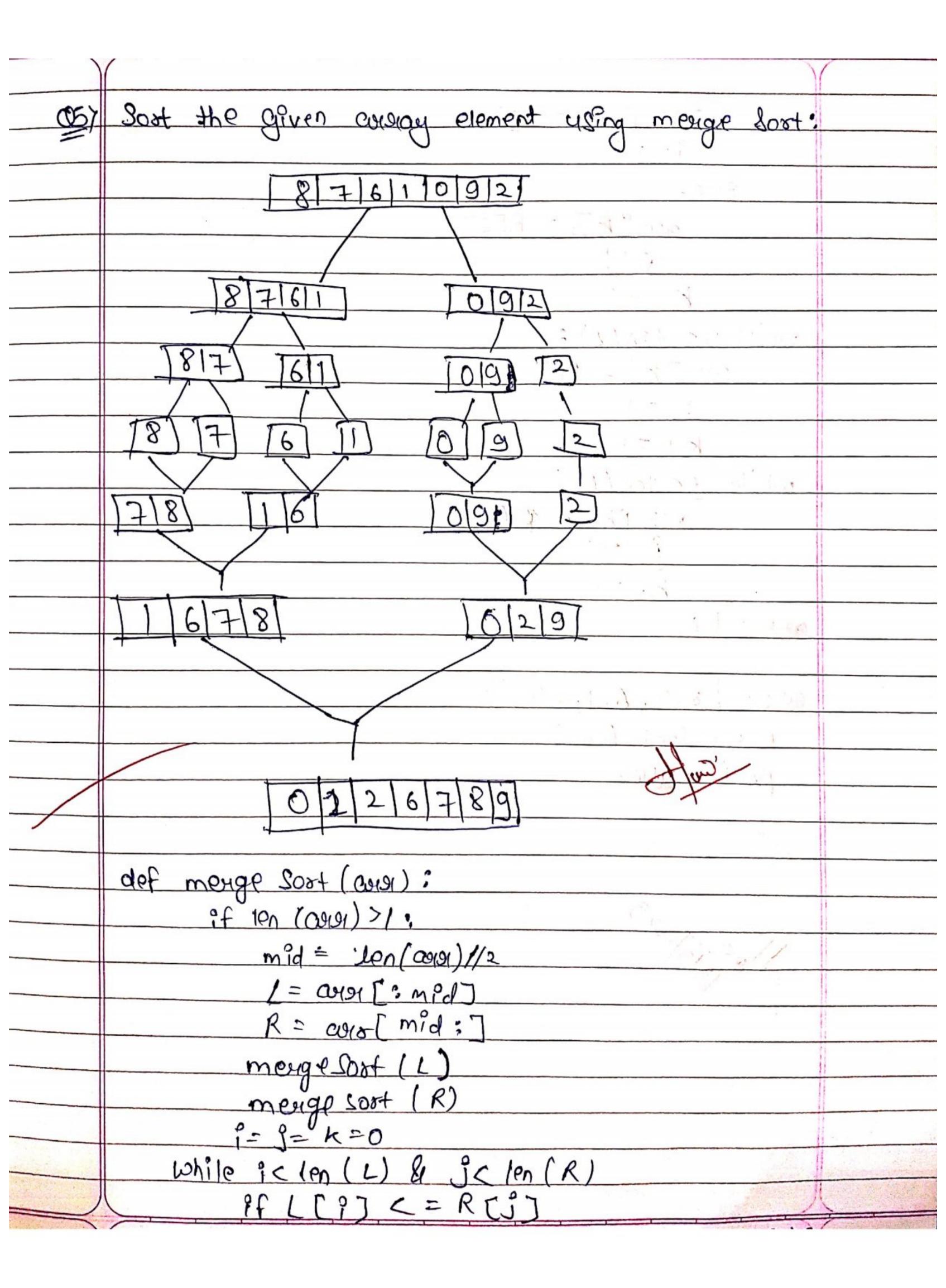
7	www.ashram.org
	Code:-
<u>.</u>	
A.V.	def bubble sort (aser):
	D = Jen(999)
	for le in stange (n-1):
	for 9 in slange (0, n-i-1):
	. [[+12] GARD C [3] SCHOO (1913)
	temp = coerc37
	$QH91 \left(\frac{3}{3} \right) = CH91 \left(\frac{1}{3} + 1 \right)$
	09191 [i + 1] = temp
	0.9191 = [-2, 45, 0, 11, -9]
	point l'ethe given avery ic: 29, aug).
	bubblesox+ (agg).
	Dough (60 Bortey arrow :15:30)
100	for ? In range (Jen (cors)):
	paint ((6 0/09) 0/2 00101 [1] 2 6 bod = (6 12)
4.	
(22)	Coxt the areas are as a second of
	Sort the given annuy element using selection sort: 20,12,
	10,15,2.
→	1
	length of augray.
	Jength = Jen (consing) -> 5.
	[20, 12, 10, 15, 2] -> aiven aven
	[20, 12, 10, 15, 2] -> given allaray [20, 12, 10, 15, 6]
	[D, B, 10, 15, 20]
* (DE)	िन किन किन किन किन किन प्रशासी फिर से पुरुषार्थ करों, अवंश्य संफलता मिलेगी।

Code :det delection sort (augu): n= Jen (cuy). for in stange (n-1) Small Notes = i : [ich 1 | pome (i+1, n): (a, 1+1) senor (i+2, 20) Small Ndx = 3. if Small Ndx = 3 Eî] repo = anst [xb/ Ham2] rever = [i] rever q mest = [xbox 112 mez 2 reter aug = [20, 12, 10, 15,2] Selection Sost (and) Print (* cour) given aggray element using insention so 19,5,1,4,3] 5,9,1,4,37 5,1,9,4,3] 5,1,4,3,9 5, 4, 3,97 1,4,3,5,9] [1,3, 8.4,5,9]

	def Insention Sort (ann):	
	n= len (assa)	
	for ? in slange (1,n): Value = eyy [i].	
	pos = i	
	While pas 70 & value < aurer [pas-1]	
	$[1-209] = [209] \times 100$	
	C1-209] 1840> [209] 1840	
	POS = 1	
	Cursit Post = Value	
	The contract of the contract o	
	0.9691 = [9,5,1,4,3]	
	Intertionsof (over)	
	Print (Quer)	
	1000	
Quy	Sort the given average element using meage sort	
	6,5,12,10,9,1	
	65/12/10/9/1	
	16/5/12/ 10/9/11	
	[10] 10	
	15/6/12/	
	156910121	

def Merge Soot (aug.): mid = len (0491)//2 L=aug [: mid] R= 00191[mid:] merge Sort (L)
merge sort (R) P = J = k = 0while ? len(1) & i < len(R) Pf Ltid <= R[j] GHA [K] = L[1] else: ary ['K] = R[97 K+8=1 while is len (e): C1919[K]=[["] while 3 c lon (R): CUNICKJ - RCij aug = [6,5,12,10,9,1] meng essor + (aure)

point (* aure).



CONSEKJ = [i] 94=1 else: COIDICK] = RES] K+1=1 while ic ten(L): aggit to = [Ci]: while j< jen(R): OPISIEKJ - PETIJ CLUB = [8,7,8,1,0,9,2] Merge Soot (avy) Print (*ays).