	··
1	Design suitable data structures and implement Pass-1 of a two-pass macro-processor. The output of Pass-1 (MN1, MD1 and intermediate code file without any macro definitions) should be input for Pass-II. MACRO INCR &X, &Y, ®1 = AREG MOVER ®1, &X ADD ®1, &Y MOVEM ®1, &X MEND MACRO DECR &A, &B, ®2 = BREG MOVER ®2, &A SUB ®2, &B MOVEM ®2, &A MEND START 100 READ N1 READ N2 DECR N1, N2 INCR N1, N2 INCR N1, N2 STOP N1 DS 1 N2 DS 2 END
2	Design suitable data structures and implement Pass-I and Pass-II of a two-pass macro-processor. The output of Pass-I (MNT, MDT and intermediate code file without any macro definitions) should be input for Pass-II.
	Input.txt
3	Write a program to create a Dynamic Link Library for any mathematical operation and write an application program to test it. (Java Native Interface / Use VB or VC++)
4	Write a program to solve Classical Problems of Synchronization using Mutex and Semaphore (Reader Writer)
5	Design a Paper Prototyping for any Banking Website or App.
6	Design Paper Prototyping for any ERP system.

		vviite a p	nogram to s	initiate CPO scrieduling Algorithms. PCFs, sir (Preemptive)		
1		Process	AT	BT		
1		P1	10	2		
1	7	P2	0	10		
1		Р3	8	4		
		P4	5	5		
	write a program to simulate CPO Scriedding Algorithms. PCPS, Priority (Non-Preemptive).					
		Process	AT			
		Process P1	AT 10			
		i .				
		P1	10	BT 2		
		P1 P2	10 0	BT 2		

		write a program to simulate CPO Scheduling Algorithms: FCFS and Round Robin.							
		Process AT BT							
		P1 10 2							
	9	P2 0 10							
		P3 8 4							
		P4 5 5							
	10	Write a program to simulate Memory placement strategies – best fit, first fit.							
	11	Write a program to simulate Memory placement strategies – best fit, worst fit.							
		Write a program to simulate Page replacement algorithm. 1. FIFO 2. LRU							
		I. FIFO 2. ERO							
	12	Input reference String :- 2 3 2 1 5 2 4 5 3 2 5 2							
		No. of frames are:- 3							
		Write a program to simulate Page replacement algorithm.							
		1. FIFO 2. OPTIMAL							
	13	Input reference String :- 2 3 2 1 5 2 4 5 3 2 5 2							
		No. of frames are:- 3							
	14	Write a program to implement Deadlock Avoidance Algorithm							
		No. of Resources 4 Max Matrix Allocation Matrix Available No. of Process 3 3 2 2 1 2 2 1 3 1 1 2							
		No. of Process 3 3 3 2 2 1 2 2 1 3 1 1 2 1 1 3 4 1 0 3 3							
		1 3 5 0 1 2 1 0							
		Design suitable data structures and implement pass-I of a two-pass assembler for pseudo-machine in Java using object							
		oriented feature.							
	start 100 movr ax 05								
		mover bx 10							
	up: add ax bx movem a ='5'								
		mul ax a							
		origin up							
		Itorg							
	15	movem b ='8'							
		movem c ='8'							
		Itorg							
		movem b='7'							
		movem c ='8'							
		ds a 02							
		dc b 10							
		ds c 09							
		next equ up							
		end							
		i							

 (AD,1) (C,100)	SYMBOL ADDRESS	LITERAL ADDRESS
100 (IS,5) (RG,1) (C,05)		5 102
100 (IS,5) (RG,1) (C,03) 101 (IS,5) (RG,2) (C,10)	up 102 a 109	8 105
101 (13,5) (RG,2) (C,10) 102 (S,1) (IS,2) (RG,1) (RG,2)	b 110	8 106
	c 110	7 113
103 (IS,6) (S,2) (L,1) 104 (IS,4) (RG,1) (S,1)	next 102	8 114
104 (13,4) (RG,1) (3,1) 105 (AD,3) (C,102)	next 102	8 114
103 (AD,3) (C,102) 102 (DL,1) (C,5)		
102 (DL,1) (C,3) 103 (IS,6) (S,3) (L,2)		
103 (15,6) (5,5) (L,2) 104 (IS,6) (S,4) (L,3)		
104 (15,6) (5,4) (L,5) 105 (DL,1) (C,8)		
103 (DL,1) (C,8) 106 (DL,1) (C,8)		
100 (DL,1) (C,8) 107 (IS,6) (S,2) (L,4)		
108 (IS,6) (S,3) (L,5)		
109 (DL,1) (C,02)		
110 (DL,2) (C,10)		
111 (DL,1) (C,09)		
112 (S,5) (AD,4) (S,1)		
 113 (AD,2)		