		DSF Advance Learner Task
Sr. No	Studen Name	Task-1
1	HINDUJA BHUSHAN BISHAM	
2	MANDKE CHINMAY MUKUND	1) Given a linked list and a value x, partition it such
3	MISHRA AKASH NANDKUMAR	that all nodes less than x come before nodes greater than or equal to x.
4	VAIDYA RAJAS ABHIJEET	2) How to convert a sorted list to a binary search tree?
5	TAMHANE VIREN MANOJ	3) How do you find the third node from the end in a singly linked list?
6	JAGADALE JAYDEEP	
7	DIXIT RUSHIKESH H	
8	GANDHI DIGZA PRAVEEN	
9	LASUNKUTE AKSHAY BALASAHEB	1)How would you remove all elements from a
10	MALUSARE DISHA SATYAWAN	linked list of integers which matches with given value?  2) Write a CPP to find node at
11	DEOTARE SANDHYA VIVEK	which the intersection of two singly linked lists begins.  3) How do you find the second node
12	AGATE ATHARVA RATNESH	from the end in a singly linked list?
13	DARWESH MRINALI JITENDRA	

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Task-2	Task-3
1. Suppose you have a task list as- A) Slow/Advance learner task ,B)Defaulter,C) Home Assignment and D)Pratical Writeups. Thease task has dependencies as- A->B, C. B->C,D and D-> C For given task list, return the valid ordering of task .Hint: Graph Traversal. (Example:Input: [ A, B, C, D ] A <- B, C B <- C, D D <- C Return: [ C, D, B, A ] Explain Logic/solution in detail.	1) How would you use Hasing to find a duplicate element in a limited range array 2) Miss. Riya is at Deccan Stop in Pune and wants to to reach at Modern college to attend the Workshop. As she is new in city help her to find route which cost minimum, write a code to traverse from deccan to Modern college considering each stop in path and guide her to reach at destination.
1. In a bank, Lockers are structred like binary tree, where each locker is node and the value of node is the cash present in locker. By this arrangmment, thief can rob lockers in alternate levels only. If thief decides to rob locker at level 0 then he can rob lockers in levels 2,4,6 or he can rob lockers in levels 1,3,5,7Find out the maximum possible amount thief can rob. Explain Solution in detail.	1) How would you use Hasing to find a duplicate element in a limited range array 2) Miss. Riya is at Deccan Stop in Pune and wants to to reach at Modern college to attend the Workshop. As she is new in city help her to find route which cost minimum, write a code to traverse from deccan to Modern college considering each stop in path and guide her to reach at destination.

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Sr. No	Name of Student	Task-1
1	BODHE SHASHANK SANJAY	
2	DIWATE SHUBHAM TUKARAM	1) How do you find the middle element of a singly linked list in one pass?
3	CHAVAN RAHUL SIDDHARTH	2) How are duplicate nodes removed in an unsorted linked list?  3) How do you find the sum of two linked
4	DHUMAWAT LOVKESH GAUTAM	lists using Stack? 4)Differentiate NULL and VOID
5	KADAM KANCHAN LAHU	
6	SHELKE PRAJAKYTA	
7	PAWAR SHUBHAM DHANLAL	
8	SANE YADUNATH JAYANT	1)What is the difference between array and linked list? 2) How To Check Whether A Linked List Is
9	SHINDE RUTUJA SANDIP	Circular ? Explain in detail.  3)Differentiate NULL and VOID
10	JOSHI SARTHAK SANJAY	4) Mr X is packing his suitcase bag for Europe Travel and placing item directly on
11	JADHAV ANIKET RAJESH	top of each other. Help Mr. X to arrange the items in suitcase as pertheir weight. Item with high weight should be at bottom.
12	KHANDADE SAMEER RAJARAM	- with high weight should be at bottom.
13	RASAL ADITYA KIRAN	

ow Learner Task
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## Task-2 Task-3 1) What are the advantages and disadvantage 1) If sorted skewed binary tree is given, of hashtable vs binary trees. When would you how can you create a binary search tree use it? of minimum height from it? 2)How is heap different from a BST?When 2) What are the advantages of binary should I use heap and when should I use BST? search over a linear search? 3) What Is What are hash tables? What is collision? The Idea Behind Splaying? Define Splay 3) Write Program: a. To Create File b. To Open 4)How does the Kruskal's Tree? File c. Writing to File d. Reading From File e. Algorithm work? Closing File 1) If sorted skewed binary tree is given, 1)Define HAsing.Write The Importance Of how can you create a binary search tree Hashing?What Do You Mean By Collision In of minimum height from it?2)What are Hashing?What Do You Mean By Hash the advantages of binary search over a Function? What Do You Mean By Hash Table? linear search?3)What Do You Mean By 2) What are the advantages of the heap over a Balance Factor Of A Node In Avl Tree? stack? 3) Write Program: a. To Create File b. What Are The Categories Of Avl To Open File c. Writing to File d. Reading From Rotations? 4) How does the Prims File e.Closing File Algorithm work?