

DSA Lec Questions

🕒 Created	@March 6, 2025 9:48 PM
🏷️ Tags	

1. WAP to calculate the circumference of a circle.
 2. WAP to reverse three digit number.
 3. WAP to convert centigrade temperature and convert it into fahrenheit temperature.
 4. Swapping of two numbers using third variable
-

Linear Search

1. Mylist = [4,7,5,2,8,1,9]
target value = 2
 2. **Check if the username already exists using linear search. Add to the list if it does not exist.**
username = ['ashish123', '123ashish', 'pritam@321', 'sonu#123', 'amit']
password = []
 3. **Check if the book exists or not using linear search algorithm.**
Book = ['Data Science', 'AGI', 'Data Analytics', 'Modern AI']
-

Binary Search

1. **WAP to search a lesson from Book by page number using binary search.**

Merge-Sort Algorithm

1. **Apply merge sort on the following.**

Input Array : [12, 11, 13, 5, 6, 7]

Insertion Sort

1. **Apply Insertion Sort on the following:**

array = [5, 3, 8, 6, 2]

Bubble Sort

1. **Apply bubble sort on the following:**

data = [64, 34, 25, 12, 22, 11, 90]

2. **Sort the following in descending order using bubble sort.**

data = [64, 34, 25, 12, 22, 11, 90]

agar normal sort karke usko reverse kiya toh bohot maarunga

Stack

1. **Apply stack implementation without size limit**
2. **Apply stack implementation with size limit.**

3. **WAP to reverse the string using stack.**
-

Queue

1. **Apply queue implementation without size limit.**
 2. **Apply queue implementation with size limit.**
-

Linked List

1. **Implement Singly Linked List**
 - a. Add node in the beginning
 - b. Add node in between
 - c. Add node in the end
 - d. Delete any node
 - e. Delete first node
 - f. Delete last node
-