NAME: Samarth Khorate

YEAR: SE **DIV:** A(A2)

EXPRIMENT NO :6

```
print("Samarth Khorate(22539) SE AIDS")
def quick_sort(arr):
    if len(arr) <= 1:
        return arr

    pivot = arr[len(arr) // 2]
    left = [x for x in arr if x < pivot]
    middle = [x for x in arr if x == pivot]
    right = [x for x in arr if x > pivot]

    return quick_sort(left) + middle + quick_sort(right)

def display_top_scores(scores, top_n=5):
    if len(scores) < top_n:
        top_n = len(scores)

    top_scores = scores[-top_n:][::-1]  # Get the top N scores and reverse the order
    print(f"Top {top_n} scores:")
    for i, score in enumerate(top_scores, start=1):
        print(f"{i}. {score}%")

def main():
    num_students = int(input("Enter the number of students: "))
    scores = []
```

```
    for i in range(num_students):
        score = float(input(f"Enter the percentage for student {i + 1}: "))
        scores.append(score)

    sorted_scores = quick_sort(scores)
    display_top_scores(sorted_scores)

if __name__ == "__main__":
    main()
```

OUTPUT: