

- **Output**

Enter number of students:3

-----Student1-----

Roll_no.:102

Name:

abc abc abc

Enter marks of 5 subjects:

Subject 1:

Credit:5

Grade:

9

Subject 2:

Credit:4

Grade:

8

Subject 3:

Credit:3

Grade:

7

Subject 4:

Credit:5

Grade:

9

Subject 5:

Credit:4

Grade:

8

-----Student2-----

Roll_no.:102

Roll number should be unique

Roll_no.:103

Name:

xyz xyz xyz

Enter marks of 5 subjects:

Subject 1:

Credit:4

Grade:

9

Subject 2:

Credit:3

Grade:

8

Subject 3:

Credit:4

Grade:

9

Subject 4:

Credit:2

Grade:

8

Subject 5:

Credit:4

Grade:

9

-----Student3-----

Roll_no.:101

Name:

pqr pqr pqr

Enter marks of 5 subjects:

Subject 1:

Credit:4

Grade:

9

Subject 2:

Credit:4

Grade:

9

Subject 3:

Credit:4

Grade:

9

Subject 4:

Credit:4

Grade:

9

Subject 5:

Credit:3

Grade:

8

1:Display

2:Sort list according to roll number

3:Sort list alphabetically

4:Sort with SGPA

5:Search student with SGPA

6:Search student according to name

7:Display toppers

8:Exit

Enter choice:1

SrNo	Roll No	Name	SGPA
------	---------	------	------

1	102	abc abc abc	8
---	-----	-------------	---

2	103	xyz xyz xyz	8
---	-----	-------------	---

3	101	pqr pqr pqr	8
---	-----	-------------	---

1:Display

2:Sort list according to roll number

3:Sort list alphabetically

4:Sort with SGPA

5:Search student with SGPA

6:Search student according to name

7:Display toppers

8:Exit

Enter choice:2

Pass 1:

1	102	abc abc abc	8
---	-----	-------------	---

2	101	pqr pqr pqr	8
---	-----	-------------	---

3	103	xyz xyz xyz	8
---	-----	-------------	---

Pass 2:

1	101	pqr pqr pqr	8
---	-----	-------------	---

2	102	abc abc abc	8
---	-----	-------------	---

3 103 xyz xyz xyz 8

Pass 3:

1 101 pqr pqr pqr 8

2 102 abc abc abc 8

3 103 xyz xyz xyz 8

List sorted successfully

1:Display

2:Sort list according to roll number

3:Sort list alphabetically

4:Sort with SGPA

5:Search student with SGPA

6:Search student according to name

7:Display toppers

8:Exit

Enter choice:3

Pass 1:

1 102 abc abc abc 8

2 101 pqr pqr pqr 8

3 103 xyz xyz xyz 8

Pass 2:

1 102 abc abc abc 8

2 101 pqr pqr pqr 8

3 103 xyz xyz xyz 8

Sorted Successfully

1:Display

2:Sort list according to roll number

3:Sort list alphabetically

4:Sort with SGPA

5:Search student with SGPA

6:Search student according to name

7:Display toppers

8:Exit

Enter choice:4

Pass 0:

1	103	xyz	xyz	xyz	8
2	102	abc	abc	abc	8
3	101	pqr	pqr	pqr	8

Sorted Successfully

1:Display
2:Sort list according to roll number
3:Sort list alphabetically
4:Sort with SGPA
5:Search student with SGPA
6:Search student according to name
7:Display toppers
8:Exit
Enter choice:5

Enter SGPA to be search:7
No student with SGPA 7 found

1:Display
2:Sort list according to roll number
3:Sort list alphabetically
4:Sort with SGPA
5:Search student with SGPA
6:Search student according to name
7:Display toppers
8:Exit
Enter choice:5

Enter SGPA to be search:8

1	103	xyz	xyz	xyz	8
2	102	abc	abc	abc	8
3	101	pqr	pqr	pqr	8

```
-----  
-----  
1:Display  
2:Sort list according to roll number  
3:Sort list alphabetically  
4:Sort with SGPA  
5:Search student with SGPA  
6:Search student according to name  
7:Display toppers  
8:Exit  
Enter choice:6  
-----
```

```
-----  
Pass 1:  
1    102  abc abc abc  8  
2    103  xyz xyz xyz  8  
3    101  pqr pqr pqr  8  
Pass 2:  
1    102  abc abc abc  8  
2    101  pqr pqr pqr  8  
3    103  xyz xyz xyz  8  
Enter search key:xyz xyz xyz  
3    103  xyz xyz xyz  8  
-----
```

```
-----  
1:Display  
2:Sort list according to roll number  
3:Sort list alphabetically  
4:Sort with SGPA  
5:Search student with SGPA  
6:Search student according to name  
7:Display toppers  
8:Exit  
Enter choice:7  
-----
```

```
-----  
Pass 0:  
1    103  xyz xyz xyz  8  
2    102  abc abc abc  8  
3    101  pqr pqr pqr  8
```

Enter number of toppers to be display:2

3 101 pqr pqr pqr 8

2 102 abc abc abc 8

1:Display

2:Sort list according to roll number

3:Sort list alphabetically

4:Sort with SGPA

5:Search student with SGPA

6:Search student according to name

7:Display toppers

8:Exit

Enter choice:7

Pass 0:

1 101 pqr pqr pqr 8

2 103 xyz xyz xyz 8

3 102 abc abc abc 8

Enter number of toppers to be display:3

3 102 abc abc abc 8

2 103 xyz xyz xyz 8

1 101 pqr pqr pqr 8

1:Display

2:Sort list according to roll number

3:Sort list alphabetically

4:Sort with SGPA

5:Search student with SGPA

6:Search student according to name

7:Display toppers

8:Exit

Enter choice:8

Thank You