

Programming Fundamentals

Lab – 11

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BS. Software Eng. - 01B

Q1 – Count Characters, Words, and Lines in a File.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● Apples-MacBook-Pro:Lab-11 apple$ gcc -o output Q1.c && ./output
Total Characters: 11
Total Words: 2
Total Lines: 2
○ Apples-MacBook-Pro:Lab-11 apple$
```

Q2 – Payroll System.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● Apples-MacBook-Pro:Lab-11 apple$ gcc -o output Q2.c && ./output
Enter Employee ID: 001
Enter Employee Name: Ali
Enter Basic Pay: 100
Enter Bonuses: 20
Enter Deductions: 50

Employee Details:
ID: 1
Name: Ali
Net Salary: 70.00
○ Apples-MacBook-Pro:Lab-11 apple$
```

Q3 – Merge Two Files.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● Apples-MacBook-Pro:Lab-11 apple$ gcc -o output Q3.c && ./output
Files merged successfully into 'merged.txt'.
○ Apples-MacBook-Pro:Lab-11 apple$
```

Q4 – Delete Contents of a File.

```
example.txt U  C Q2.c Lab-11 U  C Q3.c Lab-11 U  C Q4.c
Lab-11 > ≡ data.txt
1  nna
2  mdkadma

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
○ Apples-MacBook-Pro:Lab-11 apple$
```

```
Lab-11 > ≡ data.txt
1

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
● Apples-MacBook-Pro:Lab-11 apple$ gcc -o output Q4.c && ./output
File is now empty.
○ Apples-MacBook-Pro:Lab-11 apple$
```

Q5 – Sports Team Management.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
● Apples-MacBook-Pro:Lab-11 apple$ gcc -o output Q5.c && ./output
Enter Team Name: leonfc
Enter Sport: football
Enter Number of Players: 2
Enter Details for Player 1
Name: Ali
Age: 19
Position: Mid
Enter Details for Player 2
Name: Raza
Age: 19
Position: Forward

Team Details:
Name: leonfc
Sport: football
Player 1 – Name: Ali, Age: 19, Position: Mid
Player 2 – Name: Raza, Age: 19, Position: Forward
○ Apples-MacBook-Pro:Lab-11 apple$
```

Q6 – Log File with Timestamp.

≡ log.txt U ×

≡ example.txt U

C Q2.c Lab-11 U

C Q3.c Lab-11 U

Lab-11 > ≡ log.txt

1 Program executed at: Sun Nov 24 23:09:15 2024

2 Program executed at: Sun Nov 24 23:09:27 2024

3

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

● Apples-MacBook-Pro:Lab-11 apple\$ gcc -o output Q6.c && ./output
Execution time logged to 'log.txt'.

● Apples-MacBook-Pro:Lab-11 apple\$ gcc -o output Q6.c && ./output
Execution time logged to 'log.txt'.

○ Apples-MacBook-Pro:Lab-11 apple\$