

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

- 4ITA2@debian:~/ARPIT_240911630/Lab4\$ date

Thu Feb 5 14:48:32 IST 2026

- 4ITA2@debian:~/ARPIT_240911630/Lab4\$ gcc -l pthread -o Question3 Question3.c

- 4ITA2@debian:~/ARPIT_240911630/Lab4\$./Question3

Parent process: PID = 172571

Sleeping... child will be zombie until parent exits.

Child process: PID = 172572

Parent exiting now.

- 4ITA2@debian:~/ARPIT_240911630/Lab4\$

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● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ date

Thu Feb 5 14:58:23 IST 2026

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ gcc -l pthread -o Question5 Question5.c

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$./Question5 5

Fibonacci series (5 terms):

0 1 1 2 3

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● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ date

Thu Feb 5 14:54:08 IST 2026

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ gcc -l pthread -o Question4 Question4.c

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$./Question4 5 34 12 5 67 23

Bubble Sort completed in 0.000004 seconds. Result: 5 12 23 34 67

Insertion Sort completed in 0.000004 seconds. Result: 5 12 23 34 67

Selection Sort completed in 0.000003 seconds. Result: 5 12 23 34 67

Final sorted array (Bubble Sort reference): 5 12 23 34 67

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● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ date

Thu Feb 5 14:45:22 IST 2026

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ gcc -l pthread -o Question2 Question2.c

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$./Question2

Child: About to execute external program...

execl failed: No such file or directory

Parent: Child has finished executing external program.

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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ date

Thu Feb 5 14:40:49 IST 2026

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$ gcc -l pthread -o Question1 Question1.c

● 4ITA2@debian:~/ARPIT_240911630/Lab4\$./Question1

Child Process:

PID = 145812

PPID = 145811

Message: Hello from the child process!

Parent Process:

PID = 145811

PPID = 112660

Message: Child has finished. Hello from the parent process!

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