

DEPARTMENT OF COMPUTER ENGINEERING

Semester	T.E. Semester VI – SPCC	
Subject	Software Engineering	
Subject Professor In- charge	Prof. Pankaj Vanvari	
Assisting Teachers	Prof. Pankaj Vanvari	
Laboratory	M310B	

Student Name	Deep Salunkhe
Roll Number	21102A0014
TE Division	A

-	-•	. 1	
		tl	۵ ا

Linking different object files

Approach:

Note: I haved Linked C++ with C

- 1. File Creation:
 - Started by creating a C++ source file named cpp.cpp
 - The C++ source file contained a basic function named displayMessage() which printed "Hello, world from cpp!"
- 2. Object File Generation:
 - Compiled the C++ source file cpp.cpp into an object file named cpp.o using the g++ compiler command with the -c option.
 - Command used: g++ -c cpp.cpp -o cpp.o
- 3. C File Creation:
 - Created a C source file named c.c to demonstrate calling the C++ function from C code.
 - In the C source file, declared the displayMessage() function using the extern keyword to inform the C compiler about the function's existence.

Title: Linking different object files Roll No: 21102A0014



DEPARTMENT OF COMPUTER ENGINEERING

4. Compilation:

- Compiled the C source file c.c into an object file named c.o using the gcc compiler command with the -c option.
- Command used: gcc -c c.c -o c.o

5. Linking:

- Linked the object files c.o and cpp.o together to create an executable named FinalLinked
- Command used: g++ c.o cpp.o -o FinalLinked

6. Execution:

• Executed the FinalLinked executable to observe the output produced by calling the displayMessage() function defined in the C++ source file from the C code.

Implementation:

```
FinalLinked exe

O cpp.cpp

FinalLinked exe

O cpp.cpp

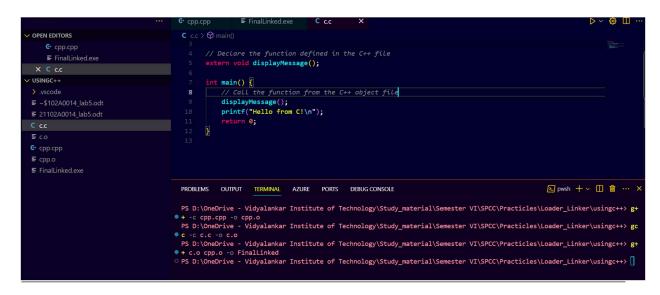
FinalLinked exe

F
```

Title: Linking different object files Roll No: 21102A0014



DEPARTMENT OF COMPUTER ENGINEERING



End Result:

```
Hello, world from cpp!
Hello from C!
Press any key to continue . . .
```

Title: Linking different object files Roll No: 21102A0014