

# System Calls



# Assignment 1



**WAP to implement cp (copy) command with -p option.**



# Assignment 1



## Pre-requisites:-

- Good knowledge File operation system calls.
- Command line arguments

## Objective:-

- To understand implementation of basic system call



# Assignment 1

## Requirements:-

1. Copy data from source file to destination file

```
./my_copy source.txt dest.txt
```



# Assignment 1

## Requirements:-

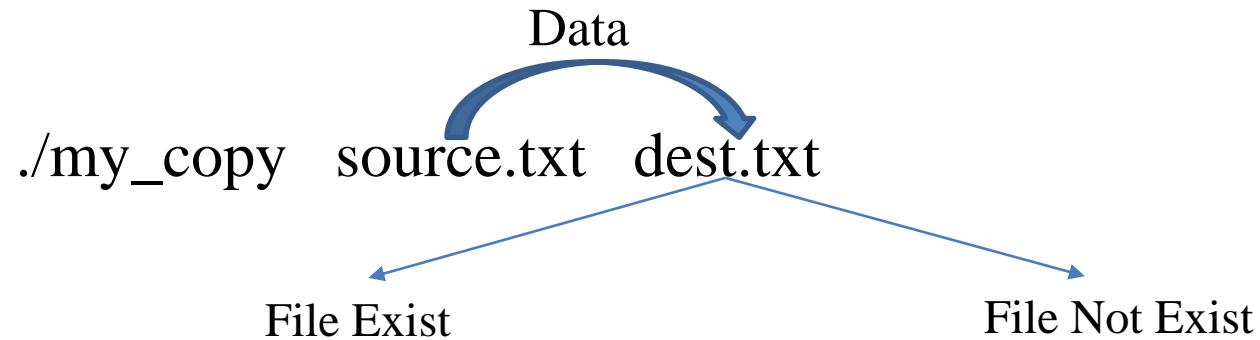
1. Copy data from source file to destination file



# Assignment 1

## Requirements:-

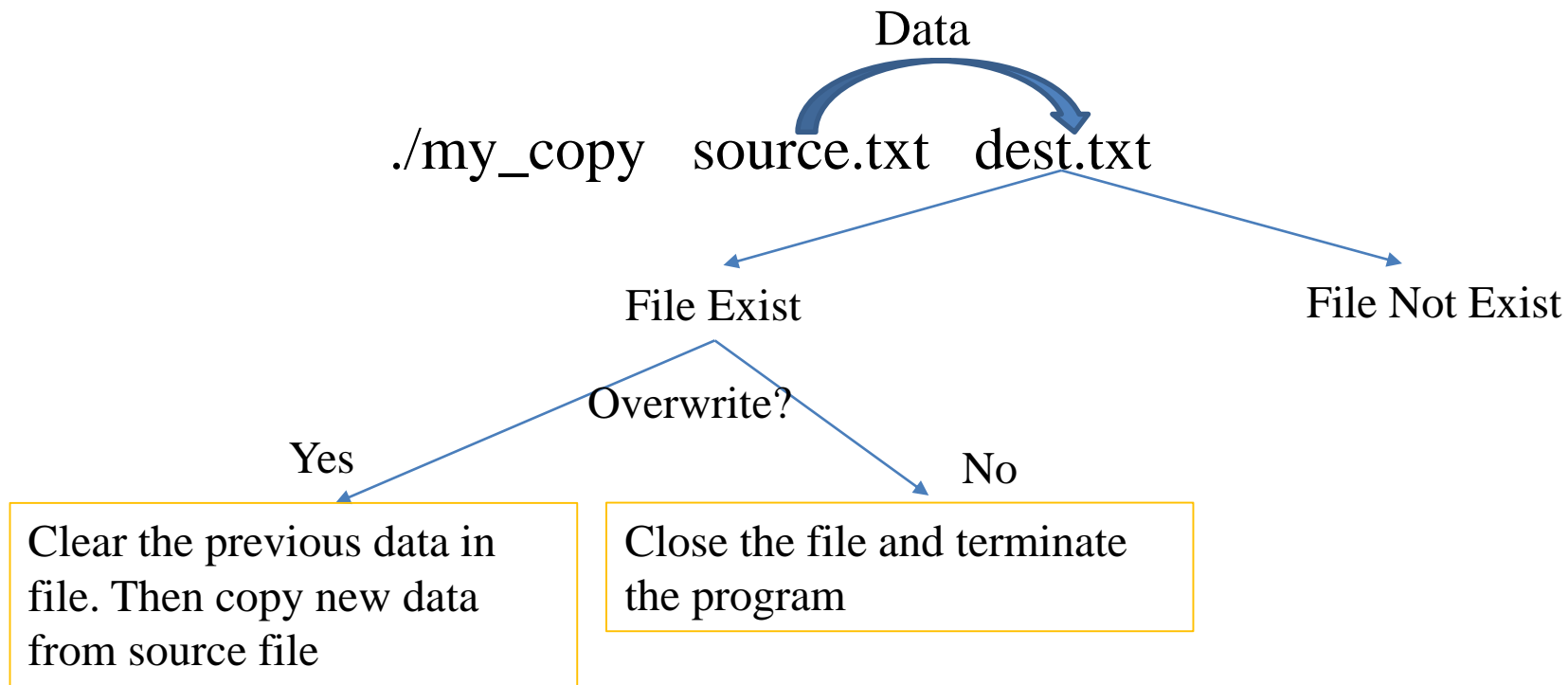
1. Copy data from source file to destination file



# Assignment 1

## Requirements:-

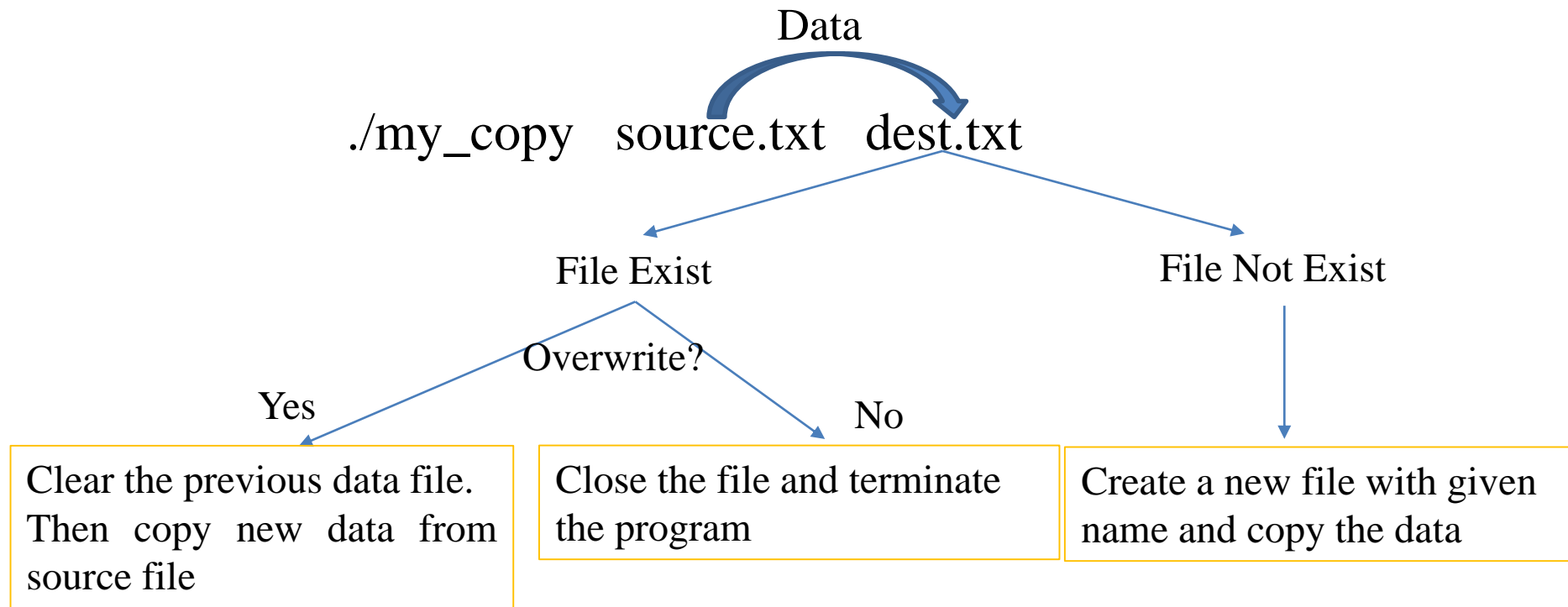
1. Copy data from source file to destination file



# Assignment 1

## Requirements:-

1. Copy data from source file to destination file





# Assignment 1

## Requirements:-

2. Copy data and permission from source file to destination file

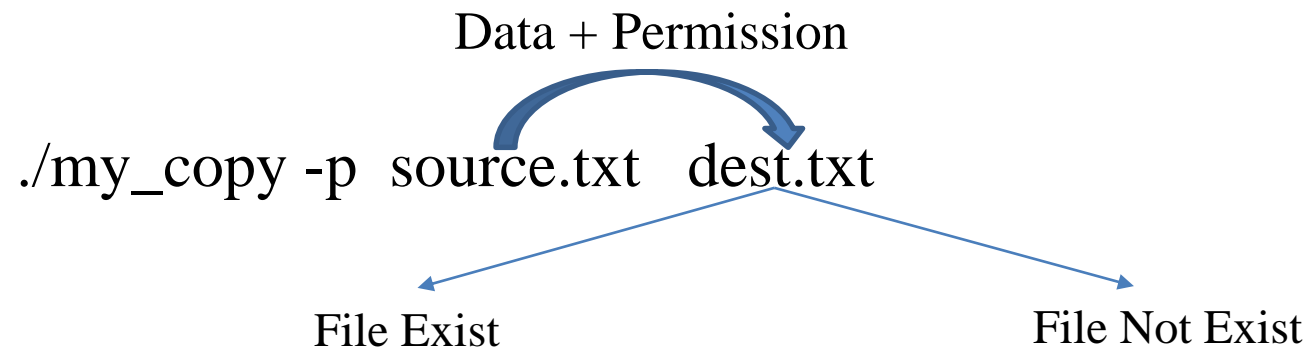
Data + Permission  
  
./my\_copy -p source.txt dest.txt



# Assignment 1

## Requirements:-

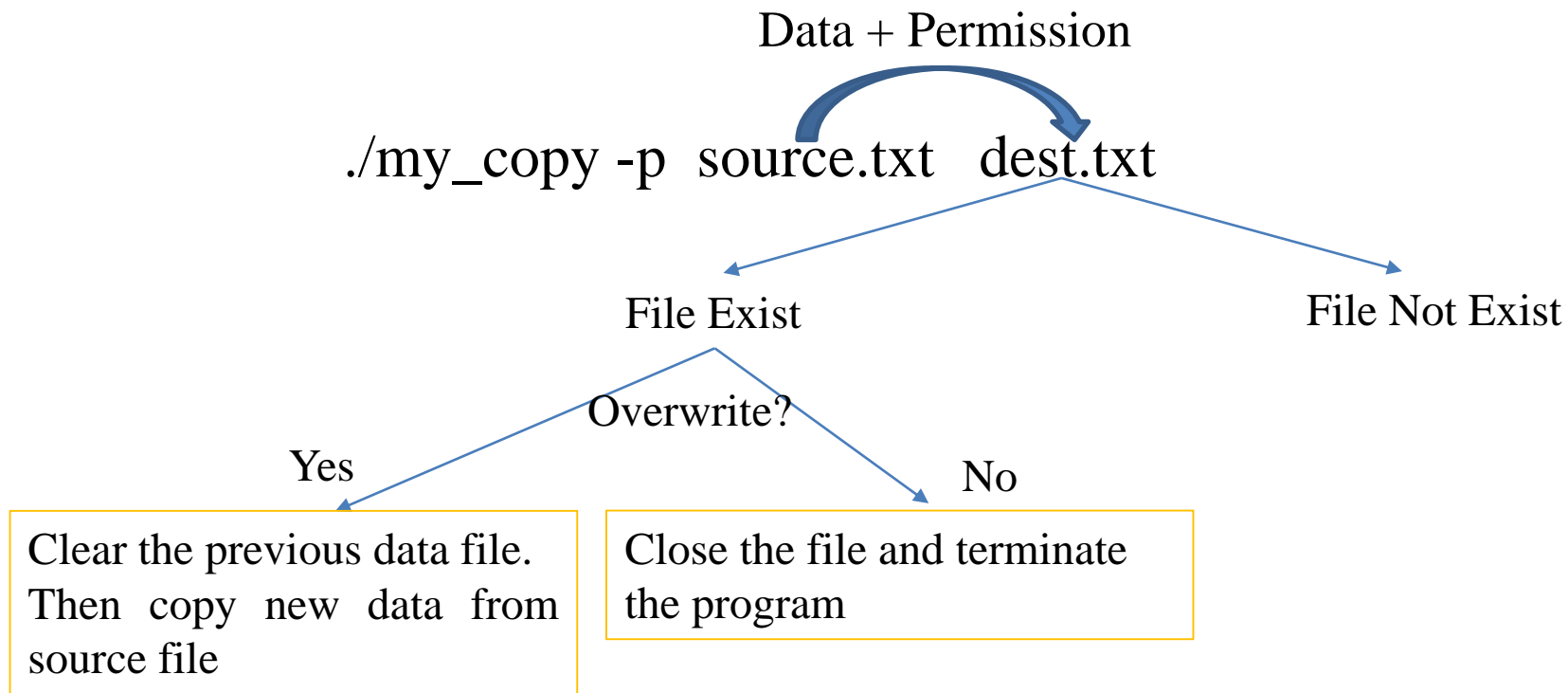
2. Copy data and permission from source file to destination file



# Assignment 1

## Requirements:-

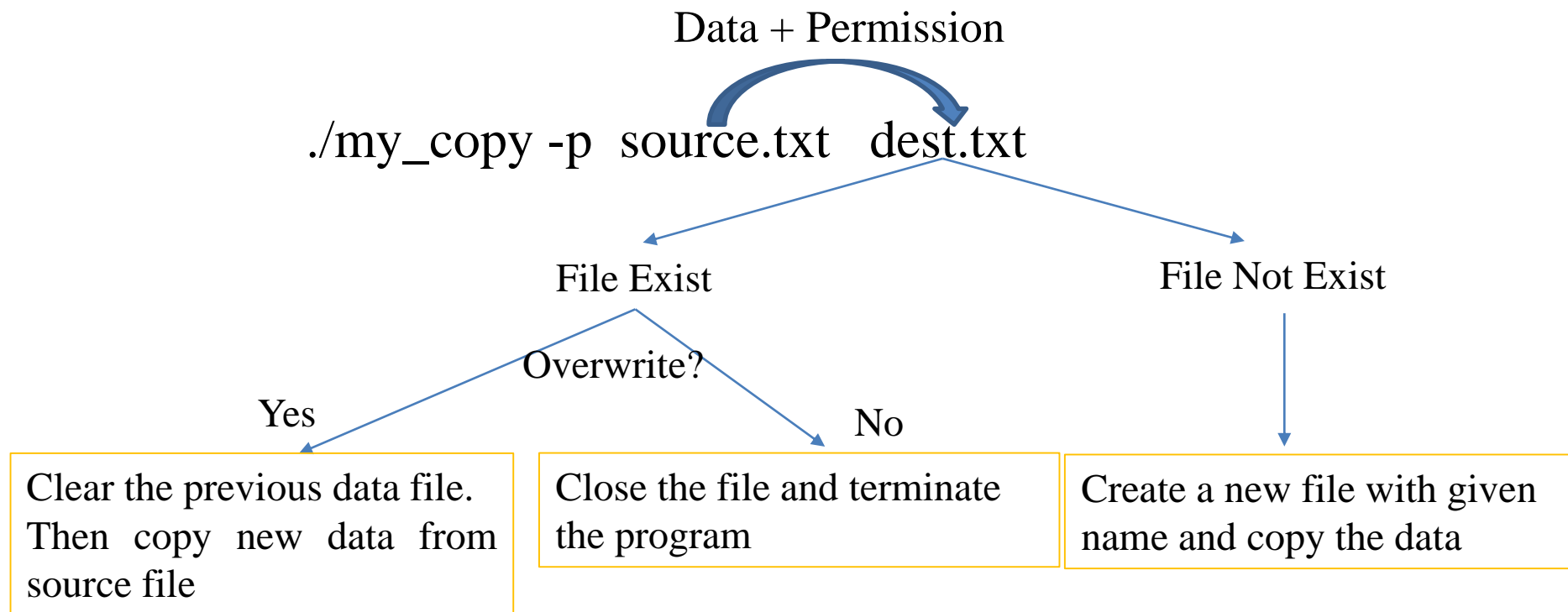
2. Copy data and permission from source file to destination file



# Assignment 1

## Requirements:-

2. Copy data and permission from source file to destination file



# Assignment 1



## Sample Output:-

→ ./my\_copy (No Arguments)

Error: Insufficient arguments

Usage: ./my\_copy [option] <source file> <destination file>



# Assignment 1



## Sample Output:-

→ `./my_copy` (No Arguments)

Error: Insufficient arguments

Usage: `./my_copy` [option] <source file> <destination file>

(When destination file not exist)

→ `./my_copy source.txt dest.txt`

New dest.txt file is created and source.txt file will be copied to dest.txt file



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## Sample Output:-

→ `./my_copy` (No Arguments)

Error: Insufficient arguments

Usage: `./my_copy` [option] <source file> <destination file>

(When destination file not exist)

→ `./my_copy source.txt dest.txt`

New dest.txt file is created and source.txt file will be copied to dest.txt file

(When destination file is exist)

→ `./my_copy source.txt dest.txt`

File “dest.txt” already exist, do you want to overwrite?(y/n)



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## Sample Output:-

(When destination file not exist)

→ `./my_copy -p source.txt dest.txt`

New dest.txt file is created and source.txt file including permissions will be copied to dest.txt file

(When destination file is exist)

→ `./my_copy -p source.txt dest.txt`

File “dest.txt” already exist, do you want to overwrite?(y/n)

→ y

Copied data and permissions from source to destination file





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## Sample Output:-

(When destination file is exist)

→ ./my\_copy source.txt dest.txt

File “dest.txt” already exist, do you want to overwrite?(y/n)

→ n

Source and dest file is closed. Data not copied.

