

Assignment 1:

Ensure the script checks if a specific file (e.g., myfile.txt) exists in the current directory. If it exists, print "File exists", otherwise print "File not found".

Sol:

```
#!/bin/bash

# Define the filename

filename="myfile.txt"


# Check if the file exists

if [ -e "$filename" ]; then

    echo "File exists"

else

    echo "File not found"

fi
```

Explanation:

1. Shebang (#!/bin/bash):

- This line specifies that the script should be executed using the Bash shell.

2. Filename Definition:

- The `filename` variable is set to the name of the file you want to check, in this case, `myfile.txt`.

3. File Existence Check:

- The `-e` flag in the `if` statement checks if the file exists (whether it's a regular file or a directory).
- `"$filename"` references the variable containing the file name.

4. Conditional Output:

- If the file exists (`if [-e "$filename"];`), the script prints "File exists".
- If the file does not exist (`else`), the script prints "File not found".

Extending the Script

For example, to check if the file is a regular file and is readable, you can modify the script as follows:

```
#!/bin/bash

# Define the filename
filename="myfile.txt"

# Check if the file exists
if [ -e "$filename" ]; then

    # Check if it is a regular file
    if [ -f "$filename" ]; then

        # Check if the file is readable
        if [ -r "$filename" ]; then

            echo "File exists and is readable"

        else

            echo "File exists but is not readable"

        fi

    else

        echo "File exists but is not a regular file"

    fi

else

    echo "File not found"

fi
```