

Assignment 4

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```
#!/bin/bash
    extract_zip() {
        unzip -o "$1"
    }
    extract_tar() {
        tar -xvf "$1"
    }

    extract_tar_gz() {
        tar -xvzf "$1"
    }

    extract_tar_bz2() {
        tar -xvjf "$1"
    }

    extract_tar_xz() {
        tar -xvJf "$1"
    }

    extract_gz() {
        gunzip "$1"
    }

    extract_bz2() {
        bunzip2 "$1"
    }
    extract_xz() {
        unxz "$1"
    }

    if [ -z "$1" ]; then
        echo "Usage: $0 <compressed_file>"
        exit 1
    fi

    FILE="$1"
    EXTENSION="${FILE##*.}"

    case "$EXTENSION" in
        zip)
            extract_zip "$FILE"
            ;;
        tar)
            extract_tar "$FILE"
            ;;
        gz)
            if [[ "$FILE" == *.tar.gz ]]; then
                extract_tar_gz "$FILE"
            else
                extract_gz "$FILE"
            fi
        fi
```

```
;;
bz2)
  if [[ "$FILE" == *.tar.bz2 ]]; then
    extract_tar_bz2 "$FILE"
  else
    extract_bz2 "$FILE"
  fi
  ;;
xz)
  if [[ "$FILE" == *.tar.xz ]]; then
    extract_tar_xz "$FILE"
  else
    extract_xz "$FILE"
  fi
  ;;
*)
  echo "Unsupported file format: $EXTENSION"
  exit 1
  ;;
esac
echo "Extraction complete."
```

The screenshot shows a terminal window with a dark background. At the top, there are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is selected and underlined), 'PORTS', and 'POSTMAN CONSOLE'. Below the tabs, the terminal output shows the command `./extract.sh example.c.zip` being executed. The output of the script is:

Archive: example.c.zip

 inflating: example.c

 inflating: __MACOSX/._example.c

Extraction complete.

The prompt returns to `nisargwath@NisargAir C0 %`.

This block contains two side-by-side screenshots. On the left is a file explorer window titled '__MACOSX'. It shows a list of files: `._example.c` (highlighted with a blue background), `._mo.txt`, and `example`. On the right is a terminal window showing the same command and output as the previous screenshot:

● nisargwath@NisargAir C0 % ./extract.sh example.c.zip

Archive: example.c.zip

 inflating: example.c

 inflating: __MACOSX/._example.c

Extraction complete.

○ nisargwath@NisargAir C0 %