

```

if [ $# -eq 0 ]; then
    echo "Usage: $0 <archive file>"
    exit 1
fi

archive="$1"

if [ ! -f "$archive" ]; then
    echo "Error: File '$archive' not found."
    exit 1
fi

case "$archive" in
    *.tar.bz2|*.tbz2)
        echo "Extracting '$archive' with: tar xvjf $archive"
        tar xvjf "$archive"
        ;;
    *.tar.gz|*.tgz)
        echo "Extracting '$archive' with: tar xvzf $archive"
        tar xvzf "$archive"
        ;;
    *.tar.xz|*.txz)
        echo "Extracting '$archive' with: tar xvJf $archive"
        tar xvJf "$archive"
        ;;
    *.tar)
        echo "Extracting '$archive' with: tar xvf $archive"
        tar xvf "$archive"
        ;;
    *.zip)
        echo "Extracting '$archive' with: unzip $archive"
        unzip "$archive"
        ;;
    *.rar)
        echo "Extracting '$archive' with: unrar x $archive"
        unrar x "$archive"
        ;;
    *)
        echo "Error: Unsupported archive format."
        exit 1
    ;;
)

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student@coep-HP-ProDesk-600-G4-SFF: ~
File Edit View Search Terminal Help

sample-1/sample-1.webp
sample-1/sample-1_1.webp
sample-1/sample-5 (1).jpg
sample-1/sample-5.webp
(base) student@coep-HP-ProDesk-600-G4-SFF:~$ ./gayatri.sh Gayatri.zip
Extracting 'Gayatri.zip' with: unzip Gayatri.zip
Archive:  Gayatri.zip
  creating: sample-2/
  inflating: sample-2/sample-5.eps
  inflating: __MACOSX/sample-2/._sample-5.eps
  inflating: sample-2/sample-4.bmp
  inflating: __MACOSX/sample-2/._sample-4.bmp
  inflating: sample-2/sample-5.svg
  inflating: __MACOSX/sample-2/._sample-5.svg
(base) student@coep-HP-ProDesk-600-G4-SFF:~$ ./gayatri.sh Gayatri.tar
Extracting 'Gayatri.tar' with: tar xvf Gayatri.tar
sample-1/
sample-1/sample-1.webp
sample-1/sample-1_1.webp
sample-1/sample-5 (1).jpg
sample-1/sample-5.webp
(base) student@coep-HP-ProDesk-600-G4-SFF:~$ ./gayatri.sh Gayatri.bz2
Extracting 'Gayatri.bz2' with: bunzip2 Gayatri.bz2
(base) student@coep-HP-ProDesk-600-G4-SFF:~$

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,,
*.tar.xz|*.txz)
    echo "Extracting '$archive' with: tar xvJf $archive"
    tar xvJf "$archive"
    ;;
*.tar)
    echo "Extracting '$archive' with: tar xvf $archive"
    tar xvf "$archive"
    ;;
*.zip)
    echo "Extracting '$archive' with: unzip $archive"
    unzip "$archive"
    ;;
*.rar)
    echo "Extracting '$archive' with: unrar x $archive"
    unrar x "$archive"
    ;;
*.7z)
    echo "Extracting '$archive' with: 7z x $archive"
    7z x "$archive"
    ;;
*.gz)
    echo "Extracting '$archive' with: gunzip $archive"
    gunzip "$archive"
    ;;
*.bz2)
    echo "Extracting '$archive' with: bunzip2 $archive"
    bunzip2 "$archive"
    ;;
*.Z)
    echo "Extracting '$archive' with: uncompress $archive"
    uncompress "$archive"
    ;;
*)
    echo "Error: '$archive' is in an unsupported archive format."
    exit 1
    ;;
esac

```

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student@coep-HP-ProDesk-600-G4-SFF: ~
File Edit View Search Terminal Help
sample-1/sample-1.webp
sample-1/sample-1_1.webp
sample-1/sample-5 (1).jpg
sample-1/sample-5.webp
(base) student@coep-HP-ProDesk-600-G4-SFF:~$ ./gayatri.sh Gayatri.zip
Extracting 'Gayatri.zip' with: unzip Gayatri.zip
Archive:  Gayatri.zip
  creating: sample-2/
  inflating: sample-2/sample-5.eps
  inflating: __MACOSX/sample-2/. _sample-5.eps
  inflating: sample-2/sample-4.bmp
  inflating: __MACOSX/sample-2/. _sample-4.bmp
  inflating: sample-2/sample-5.svg
  inflating: __MACOSX/sample-2/. _sample-5.svg
(base) student@coep-HP-ProDesk-600-G4-SFF:~$ ./gayatri.sh Gayatri.tar
Extracting 'Gayatri.tar' with: tar xvf Gayatri.tar
sample-1/
sample-1/sample-1.webp
sample-1/sample-1_1.webp
sample-1/sample-5 (1).jpg
sample-1/sample-5.webp
(base) student@coep-HP-ProDesk-600-G4-SFF:~$ ./gayatri.sh Gayatri.bz2
Extracting 'Gayatri.bz2' with: bunzip2 Gayatri.bz2
(base) student@coep-HP-ProDesk-600-G4-SFF:~$

```