**Experiment No.4**

**Aim:**

To write a script that provides a list of utilities to reuse across the scripts. The utilities are listed below:

1.Check whether the given user exists

2.Check whether the root permission is given

3.Exit the function with an error message

4.Check whether a given path is valid and is a file

**Codes:**

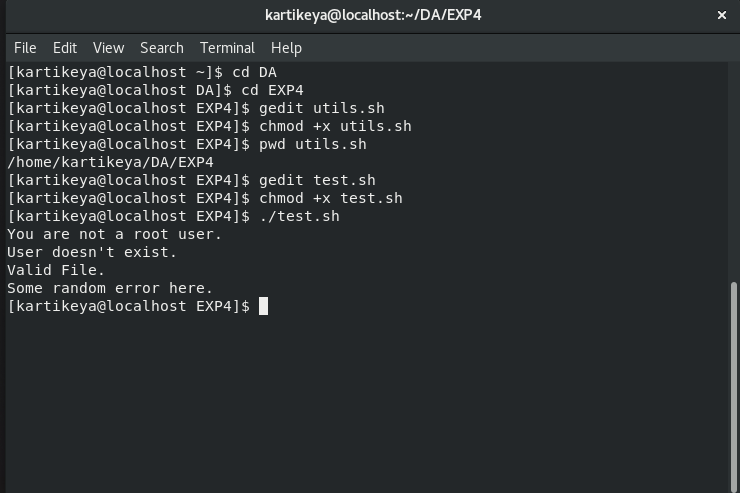
**1.Utils.sh**

|  |
| --- |
| #!/bin/bash |
|  | declare -r TRUE=0 |
|  | declare -r FALSE=1 |
|  | die() |
|  | { |
|  | echo "$1">&2; |
|  | exit 1 |
|  | } |
|  | has\_root\_permission() |
|  | { |
|  | [ $(id -u) -eq 0 ] && return $TRUE || return $FALSE |
|  | } |
|  | does\_user\_exit() |
|  | { |
|  | local username="$1" |
|  | grep -q "^${username}" /etc/passwd && return $TRUE || return $FALSE |
|  | } |
|  | is\_valid\_file() |
|  | { |
|  | local given\_path="$1" |
|  | [ -f "$(realpath $given\_path)" ] && return $TRUE || return $FALSE |
|  | } |

**2.Test.sh**

|  |
| --- |
| #!/bin/bash |
|  | . /home/kartikeya/DA/EXP4/utils.sh |
|  | has\_root\_permission && echo "You are a root user." || echo "You are not a root user." |
|  | does\_user\_exit "Redhat" && echo "User exist." || echo "User doesn't exist." |
|  | is\_valid\_file "/etc/passwd" && echo "Valid File." || echo "Invalid File." |
|  | die "Some random error here." |

**Output**

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