**National University of Modern Languages**

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**LAB TASK**

**Roll # 2340**

**Class: BSCS 5B Morning**

**Subject: Operating System(Lab)**

**Submitted to: Mrs. Humaira Batool**

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Implement Different Concepts related to Array

**CODE:**

#!/bin/bash

echo "1-SLICING AND LENGTH OF A STRING"

var="WELCOME TO THE GEEKSTUFF"

echo $var

echo "Length is:"${#var}

echo ${var:15}

echo ${var:15:4}

echo "2-TO CHECK IF IT IS DIRECTORY FILE OR NOT"

if [ -f $1 ]

then

echo "it is a file"

elif [ -d $1 ]

then

echo it is a directory

else

echo "something else"

fi

echo "3-SEARCH & REPALCE IN AN ARRAY ELEMENTS"

Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux');

echo "The array is: "${Unix[@]}

echo "The Replacing is: "${Unix[@]/UTS/OS TASK}

echo "4-ADD AN ELEMENT TO AN ARRAY"

Unix=("${Unix[@]}" "AIX" "HP-UXX")

echo ${Unix[7]}

echo "5-REMOVING AN ELEMENT"

unset Unix[3]

echo "deletion successful"

Unix=(${Unix[@]:0:3} ${Unix[@]:4})

echo ${Unix[@]}

echo "6-Remove Bash Array Elements using Patterns"

declare -a Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora');

declare -a patter=( ${Unix[@]/Red\*/} )

echo ${patter[@]}

echo "7-Copying an Array"

Linux=(${Unix[@]})

echo ${Linux[@]}

echo "Concatenation of two Bash Arrays"

Unix=('Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora' 'UTS' 'OpenLinux');

Shell=('bash' 'csh' 'jsh' 'rsh' 'ksh' 'rc' 'tcsh');

concatenate=("${Unix[@]}" "${Shell[@]}")

echo ${concatenate[@]}

echo "8-ELEMENTS IN CONCAT ARRAY: "${#concatenate[@]}

unset concatenate

echo "ENTIRE ARRAY DELETE:"${#concatenate[@]}

echo "9-Load Content of a File into an Array"

filecontent=(`cat "$1"`)

for t in "${filecontent[@]}"

do

echo $t

done

echo "READ FILE CONTENT"

exit 0;

Text

Description automatically generated**OUTPUT:**