ASSIGMENT – 10

1. compare two string

echo "Enter first string: "

read string1

echo "Enter second string: "

read string2

if [ "$string1" == "$string2" ]; then

echo "Strings are equal."

else

echo "Strings are not equal."

fi

1. concate two string

echo "Enter first string: "

read variable1

echo "Enter second string: "

read variable2

# Concatenate strings

var="${variable1}${variable2}"

echo "Concatenated string: $var"

1. length of string

echo "Enter a string: "

read string

# Finding length of string

length=$(echo -n "$string" | wc -c)

echo "Length of the string is: $length"

1. Print odd poisition characters

echo "Enter a string: "

read str

# print odd

for (( i=0; i<${#str}; i+=2 )); do

echo -n "${str:$i:1}"

done

echo

1. Find whether given string is a palindrome or not

echo "Enter a string: "

read str

clean\_str=$(echo "$str" | tr -d '[:space:]' | tr '[:upper:]' '[:lower:]')

len=${#clean\_str}

for (( i=$len-1; i>=0; i-- ))

do

rev="$rev${clean\_str:$i:1}"

done

if [ "$clean\_str" == "$rev" ]; then

echo "The string is a palindrome."

else

echo "The string is not a palindrome."

fi

1. Print the reverse of the given string

echo "Enter a string: "

read str

rev=""

len=${#str}

for (( i=$len-1; i>=0; i-- )); do

rev="$rev${str:$i:1}"

done

echo "Reversed string: $rev"

1. Find the occurance of a character in the string

echo "Enter a string: "

read string

echo "Enter a character to find: "

read char

# finding occcurance of character

occurrence=$(echo "$string" | grep -o "$char" | wc -l)

echo "The character '$char' occurs $occurrence times in the string."

1. Delete shortest and longest substring match

echo "Enter a string: "

read str

echo "Enter a pattern: "

read pattern

# Delete shortest match

shortest=${str#\*$pattern}

echo "String after deleting shortest match: $shortest"

# Delete longest match

longest=${str##\*$pattern}

echo "String after deleting longest match: $longest"