

**Task 2. [C01]:** Interpret Shell programming

- A) Study of Vi Editor
- B) Shell script to check whether year entered is leap year or not
- C) Write a script which receives two arguments of filename. Check whether the content of this two file is same or not. If content is same then delete the second file. (Use cmp command)
- D) Shell script to swap two numbers
- E) Shell script to convert Fahrenheit into Centigrade
- F) Shell program to find biggest among three numbers
- G) Shell script to determine student's grade.
- H) Write a shell script that accept a file name starting and ending line numbers as arguments and display all the lines between given line number
- I) Write a shell script that delete all lines containing a specified word

**Aim:**

To write a shell program to concatenate two strings.

**Algorithm:**

Step1: Enter into the vi editor and go to the insert mode for entering the code

Step2: Read the first string.

Step3: Read the second string

Step4: Concatenate the two strings

Step5: Enter into the escape mode for the execution of the result and verify the output

**Program:**

```
echo "enter the first string"
read str1
echo "enter the second string"
read str2
echo "the concatenated string is" $str1$str2
```

**Sample I/P:**

Enter first string: Hello

Enter first string: World

**Sample O/P:**

The concatenated string is HelloWorld

**Aim:**

To write a shell program to compare the two strings.

**Algorithm:**

Step1: Enter into the vi editor and go to the insert mode for entering the code

Step2: Read the first string.

Step3: Read the second string

Step4: Compare the two strings using the if loop

Step5: If the condition satisfies then print that two strings are equal else print two strings are not equal.

Step6: Enter into the escape mode for the execution of the result and verify the output

**Program:**

```
echo "enter the first string"
read str1
echo "enter the second string"
read str2
if [ $str1 = $str2 ]
```

```
then
echo "strings are equal"
else
echo "strings are unequal"
fi
```

**Sample I/P:1**

```
Enter first string: hai
Enter second string: hai
```

**Sample O/P:1**

```
The two strings are equal
```

**Sample I/P:2**

```
Enter first string: hai
Enter second string: cse
```

**Sample O/P:2**

```
The two strings are not equal
```

**Aim:**

To write a shell program to find greatest of three numbers.

**Algorithm:**

```
Step1: Declare the three variables.
Step2: Check if A is greater than B and C.
Step3: If so print A is greater.
Step4: Else check if B is greater than C.
Step5: If so print B is greater.
Step6: Else print C is greater.
```

**Program:**

```
echo "enter A"
read a
echo "enter B"
read b
echo "enter C"
read c
if [ $a -gt $b -a $a -gt $c ]
then
echo "A is greater"
elif [ $b -gt $a -a $b -gt $c ]
then
echo "B is greater"
else
echo "C is greater"
fi
```

**Sample I/P:**

```
Enter A:23
Enter B:45
Enter C:67
```

**Sample O/P:**

```
C is greater
```