## **Ganpat University**

**Faculty of Engineering & Technology** 

**Computer Science & Engineerin0067** 

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<u>Sem:-</u> 2

Sub: - BOSS

**Enrollment No.:-** 23162121027

**Prac:- 14** 

**Practical 14** 

Write shell script to manage(add/view/update) Marks database with following fields:

RollNumber,StudentName,LA,BOSS,BCS

- **1.** List all the details of all students.
- **2.** Add a new student with following details:

RollNumber: last 4 digits of your roll number

StudentName: yourname

LA: Marks in LA subject

BOSS: Marks in BOSS subject

BCS: Marks in BCS subject

3. Update all 70 marks to a new value 81.

```
Image:-
#!/bin/bash
DATABASE="marks database.txt"
list_students() {
   if [[ ! -f $DATABASE ]]; then
           echo "No database found.
           cat $DATABASE
     fi
add_student() {
     read -p "Enter Roll Number: " rollnumber
read -p "Enter Student Name: " studentname
     read -p "Enter LA Marks: " la_marks
read -p "Enter BOSS Marks: " boss_marks
read -p "Enter BCS Marks: " bcs_marks
     echo "$rollnumber | $studentname | $la_marks | $boss_marks | $bcs_marks" >> $DATABASE
echo "Student added successfully."
# Function to update all 70 marks to 81
update_marks() {
   if [[ ! -f $DATABASE ]]; then
           echo "No database found."
     else
          temp_file=$(mktemp)
          while IFS=' | ' read -r rollnumber studentname la_marks boss_marks bcs_marks; do
               [[ $la_marks -eq 70 ]] && la_marks=81 
[[ $boss_marks -eq 70 ]] && boss_marks=81 
[[ $bcs_marks -eq 70 ]] && bcs_marks=81
          done < $DATABASE</pre>
          mv $temp file $DATABASE
 Main script logic
echo "Marks Database Management"
echo "1. List all students"
echo "2. Add a new student"
echo "3. Update all 70 marks to 81"
echo "4. Exit"
```

```
echo "$rollnumber | $studentname | $la_marks | $boss_marks | $bcs_marks" >> $temp_file
read -p "Enter your choice: " choice
case $choice in
       list students
   2)
       add student
       update marks
         echo "Exiting..."
         ;;
    *)
         echo "Invalid choice. Exiting..."
         ;;
esac
```

## **Output:-**

```
[ddesai@localhost ~]$ touch marks manager.sh
[ddesai@localhost ~]$ vi marks manager.sh
[ddesai@localhost ~]$ chmod +x marks manager.sh
[ddesai@localhost ~]$ ./marks manager.sh
Marks Database Management

    List all students

2. Add a new student
3. Update all 70 marks to 81
4. Exit
Enter your choice: 1
No database found.
[ddesai@localhost ~]$ ./marks manager.sh
Marks Database Management

    List all students

2. Add a new student
3. Update all 70 marks to 81
4. Exit
Enter your choice: 2
Enter Roll Number: 23
Enter Student Name: dwij deasi
Enter LA Marks: 24
Enter BOSS Marks: 12
Enter BCS Marks: 26
Student added successfully.
[ddesai@localhost ~]$ 1
bash: 1: command not found...
[ddesai@localhost ~]$ ./marks manager.sh
Marks Database Management

    List all students

2. Add a new student
3. Update all 70 marks to 81
4. Exit
Enter your choice: 1
```