

```

#!/usr/local/bin/bash

filename=AttendanceRecord.txt

create() {

    read -p "Enter File Name: " filename
    echo
    if test -f $filename
    then
        echo $filename Exists!
        echo
        cat $filename
        echo =====
        echo -n Word Count:
        wc -w $filename
        echo =====
    else
        echo Creating a new file!
        touch $filename
        echo ===== >>$filename
        echo "Attendance Record" >>$filename
        echo ===== >>$filename
        echo -e "Roll No \t Name \t Class \t Attendance"
>>$filename
        echo ===== >>$filename
        echo -n Word Count:
        wc -w $filename
        echo =====
    fi
}

insert() {

    read -p "Roll No : " rollno
    if grep -q $rollno $filename #checking of rollno already
exists
    then
        echo Record Already Exists
        echo =====
    else
        read -p "Name : " name
        read -p "Class : " class
        read -p "Attendance: " attendance
        echo -e "$rollno \t $name \t $class \t $attendance" >>
$filename
        echo =====
    fi
}

```

```
}
```

```
update() {
```

```
    read -p "Roll no: " rollno
    val=$(grep -i $rollno $filename) #array variable to store
the line
    if grep -q $rollno $filename #checking if pattern exists:
pattern=rollno
    then
        echo Record Found:
        echo ${val[*]}
        read -p "New Attendance: " val[3] #3rd location contains
attendance, editing the attendance
        sed -in "/$rollno/d" $filename #deleting the line
        echo ${val[*]} >> $filename #appending the updated
attendance
        cat $filename
    else
        echo Record Not Found!
    fi
}
```

```
delete() {
```

```
    read -p "Roll no: " rollno
    val=$(grep -i $rollno $filename) #array variable to store
the line
    if grep -q $rollno $filename #checking if pattern exists:
pattern=rollno
    then
        echo Deleting Record:
        echo ${val[*]}
        sed -in "/$rollno/d" $filename #deleting the line
        cat $filename
    else
        echo Record Not Found!
    fi
}
```

```
echo
echo Select Correct Option:
echo
echo 1. Create a new Database
echo 2. Add a new Attendance Record
echo 3. Update an Attendance
echo 4. Delete an Attendance Record
echo 5. Display Attendance Record
```

```
echo 6. Exit
echo =====
read -p "Enter Choice: " ch
echo =====

while [ $ch -ne 6 ]
do
    case $ch in
        1 )
            create
            ;;
        2 )
            insert
            ;;
        3 )
            update
            ;;
        4 )
            delete
            ;;
        5 )
            cat $filename
            ;;
        * )
            echo Wrong Choice! Select Correct Option
            ;;
    esac

    echo
    echo Select Correct Option
    echo
    echo 1. Create a new Database
    echo 2. Add a new Attendance Record
    echo 3. Update an Attendance
    echo 4. Delete an Attendance Record
    echo 5. Display Attendance Record
    echo 6. Exit
    echo =====
    read -p "Enter Choice: " ch
    echo =====

done
```

Someshwars-MacBook-Pro:SL2 someshwargaikwad\$ ./Assignment1.sh

Select Correct Option:

1. Create a new Database
  2. Add a new Attendance Record
  3. Update an Attendance
  4. Delete an Attendance Record
  5. Display Attendance Record
  6. Exit
- 

Enter Choice: 1

---

Enter File Name: AttendanceRecord.txt

AttendanceRecord.txt Exists!

---

#### Attendance Record

---

Roll No	Name	Class	Attendance
33255	Shreyas	TE10	98
33257	Sushant	TE10	90
33256	Someshwar	TE10	98
33259	Tanmay	TE10	92
33262	Yash	TE10	88
33258	Venkatesh	TE10	89

---

Word Count: 34 AttendanceRecord.txt

---

Select Correct Option

1. Create a new Database
  2. Add a new Attendance Record
  3. Update an Attendance
  4. Delete an Attendance Record
  5. Display Attendance Record
  6. Exit
- 

Enter Choice: 2

---

Roll No : 33259

Record Already Exists

---

Select Correct Option

1. Create a new Database
2. Add a new Attendance Record
3. Update an Attendance

4. Delete an Attendance Record
  5. Display Attendance Record
  6. Exit
- 

Enter Choice: 2

---

Roll No : 33250  
Name : Saloni  
Class : TE10  
Attendance: 99

---

Select Correct Option

1. Create a new Database
  2. Add a new Attendance Record
  3. Update an Attendance
  4. Delete an Attendance Record
  5. Display Attendance Record
  6. Exit
- 

Enter Choice: 5

---

#### Attendance Record

---

Roll No	Name	Class	Attendance
33255	Shreyas	TE10	98
33257	Sushant	TE10	90
33256	Someshwar	TE10	98
33259	Tanmay	TE10	92
33262	Yash	TE10	88
33258	Venkatesh	TE10	89
33250	Saloni	TE10	99

---

Select Correct Option

1. Create a new Database
  2. Add a new Attendance Record
  3. Update an Attendance
  4. Delete an Attendance Record
  5. Display Attendance Record
  6. Exit
- 

Enter Choice: 3

---

Roll no: 33256  
Record Found:  
33256 Someshwar TE10 98  
New Attendance: 88

---

### Attendance Record

```
=====
Roll No      Name       Class      Attendance
=====
33255      Shreyas    TE10  98
33257      Sushant    TE10  90
33259      Tanmay     TE10  92
33262      Yash       TE10  88
33258      Venkatesh  TE10  89
33250      Saloni     TE10  99
33256 Someshwar TE10 88
```

Select Correct Option

1. Create a new Database
2. Add a new Attendance Record
3. Update an Attendance
4. Delete an Attendance Record
5. Display Attendance Record
6. Exit

```
=====
Enter Choice: 5
=====
```

### Attendance Record

```
=====
Roll No      Name       Class      Attendance
=====
33255      Shreyas    TE10  98
33257      Sushant    TE10  90
33259      Tanmay     TE10  92
33262      Yash       TE10  88
33258      Venkatesh  TE10  89
33250      Saloni     TE10  99
33256 Someshwar TE10 88
```

Select Correct Option

1. Create a new Database
2. Add a new Attendance Record
3. Update an Attendance
4. Delete an Attendance Record
5. Display Attendance Record
6. Exit

```
=====
Enter Choice: 4
=====
```

Roll no: 33259

Deleting Record:

33259 Tanmay TE10 92

### Attendance Record

```
=====
Roll No      Name       Class      Attendance
=====
33255      Shreyas    TE10  98
33257      Sushant    TE10  90
33262      Yash       TE10  88
33258      Venkatesh  TE10  89
33250      Saloni     TE10  99
33256 Someshwar TE10 88
```

Select Correct Option

1. Create a new Database
2. Add a new Attendance Record
3. Update an Attendance
4. Delete an Attendance Record
5. Display Attendance Record
6. Exit

```
=====
Enter Choice: 5
=====
```

#### Attendance Record

```
=====
Roll No      Name       Class      Attendance
=====
33255      Shreyas    TE10  98
33257      Sushant    TE10  90
33262      Yash       TE10  88
33258      Venkatesh  TE10  89
33250      Saloni     TE10  99
33256 Someshwar TE10 88
```

Select Correct Option

1. Create a new Database
2. Add a new Attendance Record
3. Update an Attendance
4. Delete an Attendance Record
5. Display Attendance Record
6. Exit

```
=====
Enter Choice: 6
=====
```

```
Someshwars-MacBook-Pro:SL2 someshwargaikwad$
```