

11. ILLUSTRATION OF CSV FILE PROGRAMMING– I

Develop a menu driven program implementing the user defined functions to perform different functions on a csv file named mobile.csv(modelid, modelname, modelprice)

1. Append a record
2. Updating a record based on modelid
3. Display all
4. Exit

Source Code

```
import csv

f = open("mobile.csv", "a") # Ensure that the file exists
f.close()

def appendMobile():
    mID = input("Enter model ID: ")
    mName = input("Enter model Name: ")
    mPrice = input("Enter model Price: ")

    with open("mobile.csv", "a", newline="") as f:
        wr = csv.writer(f)
        wr.writerow([mID, mName , mPrice])

    print("Record appended to file")

def updateMobile():
    mID = input("Enter model ID: ")
    mName = input("Enter new model Name: ")
    mPrice = input("Enter new model Price: ")

    newrows = []
    with open("mobile.csv", "r", newline="") as f:
        re = csv.reader(f)
        for row in re:
            newrows.append(row)

    with open("mobile.csv", "w", newline="") as f:
        wr = csv.writer(f)
```

```

        for row in newrows:
            if row[0] == mID:
                wr.writerow([mID, mName , mPrice])
            else:
                wr.writerow(row)

print("Updated record")
print("-----")
print("modelID:", mID)
print("Name   :", mName)
print("Price  :", mPrice)
print("-----")

def showMobiles():
    rows = []
    with open("mobile.csv", "r", newline="") as f:
        re = csv.reader(f)
        for row in re:
            rows.append(row)

    for row in rows:
        print("-----")
        print("modelID:", row[0])
        print("Name   :", row[1])
        print("Price  :", row[2])
        print("-----")

while True:
    print("=====")
    print("What would you like to do?")
    print("""
[1] Append a Model
[2] Update a Model
[3] Show all Models
[4] Exit
""")

    ch = input("Enter your choice[1/2/3/4]: ")

    if ch == "1":
        appendMobile()

    elif ch == "2":
        updateMobile()

    elif ch == "3":
        showMobiles()

    elif ch == "4":
        print("[ Exiting ]") # Break from the loop to exit
        break

```

```
else:  
    print("[ Invalid Choice ]") # In case user inputs a choice that was n
```

OUTPUT

```
=====
What would you like to do?

    [1] Append a Model
    [2] Update a Model
    [3] Show all Models
    [4] Exit

Enter your choice[1/2/3/4]: 1
Enter model ID: 1
Enter model Name: Samsung S21
Enter model Price: 32000
Record appended to file
=====
What would you like to do?

    [1] Append a Model
    [2] Update a Model
    [3] Show all Models
    [4] Exit

Enter your choice[1/2/3/4]: 1
Enter model ID: 2
Enter model Name: iPhone 13
Enter model Price: 45000
Record appended to file
=====
What would you like to do?

    [1] Append a Model
    [2] Update a Model
    [3] Show all Models
    [4] Exit

Enter your choice[1/2/3/4]: 3
-----
modelID: 1
Name    : Samsung S21
Price   : 32000
-----
-----
modelID: 2
Name    : iPhone 13
Price   : 45000
```

=====

What would you like to do?

- [1] Append a Model
- [2] Update a Model
- [3] Show all Models
- [4] Exit

Enter your choice[1/2/3/4]: 2

Enter model ID: 1

Enter new model Name: Samsung S21 Ultra

Enter new model Price: 44000

Updated record

modelID: 1

Name : Samsung S21 Ultra

Price : 44000

=====

What would you like to do?

- [1] Append a Model
- [2] Update a Model
- [3] Show all Models
- [4] Exit

Enter your choice[1/2/3/4]: 3

modelID: 1

Name : Samsung S21 Ultra

Price : 44000

modelID: 2

Name : iPhone 13

Price : 45000

=====

What would you like to do?

- [1] Append a Model
- [2] Update a Model
- [3] Show all Models
- [4] Exit

Enter your choice[1/2/3/4]: 4

[Exiting]