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#Import Time
import time

Vehicle_Number=['XXXX-XX-XXXX']

Vehicle_Type=['Bike']

vehicle_Name=['Intruder']

Owner_Name=['Unknown']

Date=['22-22-3636']

Time=['22:22:22']

bikes=100

cars=250

bicycles=78

def main():

    global bikes,cars,bicycles

    try:

        while True:

            print("-----")

            print("\t\tParking Management System")

            print("-----")

            print("1.Vehicle Entry")

            print("2.Remove Entry" )

            print("3.View Parked Vehicle ")

            print("4.View Left Parking Space ")

            print("5.Amount Details ")

            print("6.Bill")

            print("7.Close Programme ")

            print("+-----+")

            ch=int(input("\tSelect option:"))

            if ch==1:

                no=True

                while no==True:

                    Vno=input("\tEnter vehicle number (XXXX-XX-XXXX) - ").upper()

                    if Vno=="":

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        print("##### Enter Vehicle No. #####")
    elif Vno in Vehicle_Number:
        print("##### Vehicle Number Already Exists")
    elif len(Vno)==12:
        no=not True
        Vehicle_Number.append(Vno)
    else:
        print("##### Enter Valid Vehicle Number #####")
typee=True
while typee==True:
    Vtype=str(input("\nEnter vehicle type(Bicycle=A/Bike=B/Car=C):")).lower()
    if Vtype=="":
        print("##### Enter Vehicle Type #####")
    elif Vtype=="a":
        Vehicle_Type.append("Bicycle")
        bicycles-=1
        typee=not True
    elif Vtype=="b":
        Vehicle_Type.append("Bike")
        bikes-=1
        typee=not True
    elif Vtype=="c":
        Vehicle_Type.append("Car")
        cars-=1
        typee=not True
    else:
        print("##### Please Enter Valid Option #####")
name=True
while name==True:
    vname=input("\nEnter vehicle name - ")
    if vname=="":
        print("#####Please Enter Vehicle Name #####")

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else:
    vehicle_Name.append(vname)
    name=not True
o=True
while o==True:
    OName=input("\tEnter owner name - ")
    if OName=="":
        print("##### Please Enter Owner Name #####")
    else:
        Owner_Name.append(OName)
        o=not True
d=True
while d==True:
    date=input("\tEnter Date (DD-MM-YYYY) - ")
    if date=="":
        print("##### Enter Date #####")
    elif len(date)!=10:
        print("##### Enter Valid Date #####")
    else:
        Date.append(date)
        d=not True
t=True
while t==True:
    time=input("\tEnter Time (HH:MM:SS) - ")
    if t=="":
        print("##### Enter Time #####")
    elif len(time)!=8:
        print("##### Please Enter Valid Date #####")
    else:
        Time.append(time)
        t=not True

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        print("\n.....Record detail
saved.....")

    elif ch==2:

        no=True

        while no==True:

            Vno=input("\tEnter vehicle number to Delete(XXXX-XX-XXXX) - ").upper()

            if Vno=="":

                print("##### Enter Vehicle No. #####")

            elif len(Vno)==12:

                if Vno in Vehicle_Number:

                    i=Vehicle_Number.index(Vno)

                    Vehicle_Number.pop(i)

                    Vehicle_Type.pop(i)

                    vehicle_Name.pop(i)

                    Owner_Name.pop(i)

                    Date.pop(i)

                    Time.pop(i)

                    no=not True

                    print("\n.....Removed
Sucessfully.....")

                elif Vno not in Vehicle_Number:

                    print("##### No Such Entry #####")

                else:

                    print("Error")

            else:

                print("##### Enter Valid Vehicle Number #####")

        elif ch==3:

            count=0

            print("-----")

            print("\t\t\tParked Vehicle")

            print("-----")

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        print("Vehicle No.\tVehicle Type\t\tVehicle Name\t\tOwner Name\t\tDate\t\tTime")
        print("-----")
----")

        for i in range(len(Vehicle_Number)):

            count+=1

            print(Vehicle_Number[i],"\t",Vehicle_Type[i],"\t\t\t",vehicle_Name[i],"\t\t\t",
Owner_Name[i],"\t\t\t",Date[i],"\t\t\t",Time[i])

            print("-----")
----")

            print("----- Total Records - ",count,"-----")
-----")

            print("-----")
----")

        elif ch==4:

            print("-----")
----")

            print("\t\t\t\tSpaces Left For Parking")

            print("-----")
----")

            print("\tSpaces Available for Bicycle - ",bicycles)

            print("\tSpaces Available for Bike - ",bikes)

            print("\tSpaces Available for Car - ",cars)

            print("-----")
----")

        elif ch==5:

            print("-----")
----")

            print("\t\t\t\tParking Rate")

            print("-----")
----")

            print("*1.Bicycle\t\tRs20 / Hour")

            print("*2.Bike\t\t\tRs40/ Hour")

            print("*3.Car\t\t\tRs60/ Hour")

            print("-----")
----")

        elif ch==6:

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print("..... Generating Bill
.....")

no=True

while no==True:

    Vno=input("\tEnter vehicle number to Delete(XXXX-XX-XXXX) - ").upper()

    if Vno=="":

        print("##### Enter Vehicle No. #####")

    elif len(Vno)==12:

        if Vno in Vehicle_Number:

            i=Vehicle_Number.index(Vno)

            no=not True

        elif Vno not in Vehicle_Number:

            print("##### No Such Entry #####")

        else:

            print("Error")

    else:

        print("##### Enter Valid Vehicle Number #####")

print("\tVehicle Check in time - ",Time[i])
print("\tVehicle Check in Date - ",Date[i])
print("\tVehicle Type - ",Vehicle_Type[i])

inp=True

amt=0

while inp==True:

    hr=input("\tEnter No. of Hours Vehicle Parked - ").lower()

    if hr=="":

        print("##### Please Enter Hours #####")

    elif int(hr)==0 and Vehicle_Type[i]=="Bicycle":

        amt=20

        inp=not True

    elif int(hr)==0 and Vehicle_Type[i]=="Bike":

        amt=40

        inp=not True

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elif int(hr)==0 and Vehicle_Type[i]=="Car":
    amt=60
    inp=not True
elif int(hr)>=1:
    if Vehicle_Type[i]=="Bicycle":
        amt=int(hr)*int(20)
        inp=not True
    elif Vehicle_Type[i]=="Bike":
        amt=int(hr)*int(40)
        inp=not True
    elif Vehicle_Type[i]=="Car":
        amt=int(hr)*int(60)
        inp=not True
print("\t Parking Charge - ",amt)
ac=18/100*int(amt)
print("\tAdd. charge 18 % - ",ac)
print("\tTotal Charge - ",int(amt)+int(ac))
print(".....Thank you for using our
service.....")
a=input("\tPress Any Key to Proceed - ")
elif ch==7:
    print(".....Thank you for using our
service.....")
    print("*****(: Bye Bye :)*")
    break
    quit
except:
    main()
main()

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