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ROLL NO – 2014 , DIV - A

```
#include<iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
class vehicle{
```

```
    public:
```

```
    int vid=0,vtype=0,vpay=0;
```

```
    char vreturn;
```

```
    int show();
```

```
    inline int input(){
```

```
        cout<<"\n_____Enter Details_____\n";
```

```
        cout<<"Vehicle Id: ";
```

```
        cin>>vid;
```

```
                cout<<" 1.Car/Van/Jeep:\n ";
```

```
                cout<<"2.Tractor/mini Bus:\n ";
```

```
                cout<<"3.BUS/Truck/Road Roller:\n ";
```

```
                cout<<"4.Axie/Heavy Construction Machinery:\n ";
```

```
                cout<<"5.7 or more Axie:\n ";
```

```
        cout<<"SELECT VEHICLE TYPE: ";
```

```
        cin>>vtype;
```

```
        cout<<"Return Journey y/n: ";
```

```
        cin>>vreturn;
```

```
        switch(vtype){
```

```
            case 1:
```

```
if(vreturn=='n')  
    vpay=50;  
  
else  
  
    vpay=90;  
  
    break;
```

case 2:

```
if(vreturn=='n')  
    vpay=90;  
  
else  
  
    vpay=175;  
  
    break;
```

case 3:

```
if(vreturn=='n')  
    vpay=150;  
  
else  
  
    vpay=290;  
  
    break;
```

case 4:

```
if(vreturn=='n')  
    vpay=300;  
  
else  
  
    vpay=550;  
  
    break;
```

case 5:

```
if(vreturn=='n')
```

```

        vpay=450;

    else

        vpay=890;

        break

    default:

        cout<<"Wrong Vehicle Type"<<endl;

}

}

};

int vehicle::show(){

    cout<<"\n_____Details_____\n";

    cout<<"Vehicle Id\t"<<vid;

    cout<<"\nVehicle Type\t"<<vtype;

    cout<<"\nReturn Journey\t"<<vreturn;

    cout<<"\nToll charges\t"<<vpay<<endl;

}

int main(){

    static int
count=0,totalpay=0,type1=0,type2=0,type3=0,type4=0,type5=0,type1pay=0,type2pay=0,type3pay=0,type4pay=0,type5pay=0;

    vehicle v[50];

    while(1){

        int ch;

        cout<<"\n1.Data Entry\n2.Show details\n3.Exit\n";

        cout<<"Enter your choice: ";

        cin>>ch;

```

```
switch(ch){  
    case 1:  
        char choice;  
        do{  
            v[count].input();  
            count++;  
            cout<<"\n you want another entry for vehicle y/n: ";  
            cin>>choice;  
        }while(choice=='y');  
        break;  
    case 2:  
        for(int i=0;i<count;i++){  
            v[i].show();  
            if(v[i].vtype==1){  
                totalpay+=v[i].vpay;  
                type1++;  
                type1pay+=v[i].vpay;  
            }  
            if(v[i].vtype==2){  
                type2++;  
                totalpay+=v[i].vpay;  
                type2pay+=v[i].vpay;  
            }  
            if(v[i].vtype==3){  
                type3++;  
            }  
        }  
    }  
}
```

```

        totalpay+=v[i].vpay;

        type3pay+=v[i].vpay;

    }

    if(v[i].vtype==4){

        type4++;

        totalpay+=v[i].vpay;

        type4pay+=v[i].vpay;

    }

    if(v[i].vtype==5){

        type5++;

        totalpay+=v[i].vpay;

        type5pay+=v[i].vpay;

    }

}

cout<<"\nTotal   vehicle passed:"<<count<<endl;

cout<<"Total   Toll Collected:"<<totalpay<<endl;

cout<<"Sr. |\t"<<"Vehicle Type                |\t"<<"Individual Amount |\t";

cout<<"\n1 | "<<"Car/Van/Jeep:                | "<<type1pay<<endl;

cout<<"2. | "<<"Tractor/mini Bus:                | "<<type2pay<<endl;

        cout<<"3. | "<<"BUS/Truck/Road Roller:                | "<<type3pay<<endl;

        cout<<"4. | "<<"Axie/Heavy Construction Machinery    | "<<type4pay<<endl;

        cout<<"5. | "<<"7 or more Axie:                | "<<type5pay<<endl;

    break;

case 3:

    return 0;

```

default:

```
        cout<<"\nInvalid Choice:"<<count<<endl;

    }

}

}
```

OUTPUT:

```
1.Data Entry
2.Show details
3.Exit
Enter your choice: 1

-----Enter Details-----
Vehicle Id: 4691
1.Car/Van/Jeep:
2.Tractor/mini Bus:
3.BUS/Truck/Road Roller:
4.Axie/Heavy Construction Machinery:
5.7 or more Axie:
SELECT VEHICLE TYPE: 1
Return Journey y/n: 12

you want another entry for vehicle y/n:
1.Data Entry
2.Show details
3.Exit
Enter your choice: 2

-----Details-----
Vehicle Id      4691
Vehicle Type    1
Return Journey  1
Toll charges    90

Total  vehicle passed:1
Total  Toll Collected:90
Sr.   | Vehicle Type | Individual Amount |
1.    | Car/Van/Jeep: | 90
2.    | Tractor/mini Bus: | 0
3.    | BUS/Truck/Road Roller: | 0
4.    | Axie/Heavy Construction Machinery: | 0
5.    | 7 or more Axie: | 0
```