

Design a structure named "Car" to store details like car ID, model, and rental rate per day. Write a C program to input data for three cars, calculate the total rental cost for a specified number of days, and display the results.

```
#include<stdio.h>
struct Car{
    int ID;
    char model[90];
    float rentalRate;
    int numberOfDays;
};

struct Car cars[3];

void calculateRentalCost(){
    float rate;
    for(int i=0;i<3;i++){
        rate = cars[i].numberOfDays*cars[i].rentalRate;
        printf("\nThe rental rate for %s is %f",cars[i].model,rate);
    }
}

int main(){

    for(int i=0;i<3;i++){
        printf("Enter the details of CAR - %d",i+1);
        printf("\nEnter the ID : ");
        scanf("%d",&cars[i].ID);
        printf("Enter the model : ");
        scanf("%s",cars[i].model);
        printf("Enter the rental rate : ");
        scanf("%f",&cars[i].rentalRate);
        printf("Enter the number of days : ");
        scanf("%d",&cars[i].numberOfDays);
    }

    calculateRentalCost();
    return 0;
}
```

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main.c

Save

Run

1

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2

3

#include<stdio.h>

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struct Car{

5

int ID;

6

char model[90];

7

float rentalRate;

8

int numberOfDays;

9

};

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11

struct Car cars[3];

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13

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void calculateRentalCost(){

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float rate;

16

for(int i=0;i<3;i++){

17

rate = cars[i].numberOfDays*cars[i].rentalRate;

18

printf("\nThe rental rate for %s is %f",cars[i].model,rate);

19

}

20

}

21

int main(){

22

23

for(int i=0;i<3;i++){

24

printf("Enter the details of CAR - %d",i+1);

25

printf("\nEnter the ID : ");

26

scanf("%d",&cars[i].ID);

27

printf("Enter the model : ");

Output

Clear

/tmp/yQuynp5Bxi.o

Enter the details of CAR - 1

Enter the ID : 1

Enter the model : C1

Enter the rental rate : 234

Enter the number of days : 4

Enter the details of CAR - 2

Enter the ID : 2

Enter the model : C2

Enter the rental rate : 456

Enter the number of days : 8

Enter the details of CAR - 3

Enter the ID : 3

Enter the model : C3

Enter the rental rate : 345

Enter the number of days : 24

The rental rate for C1 is 936.000000

The rental rate for C2 is 3648.000000

The rental rate for C3 is 8280.000000