

Price Estimation of Used Cars

END TERM REPORT

by

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Lovely Professional University, Jalandhar.

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Student Declaration

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged . We aver that if any part of the report is found to be copied. We shall take full responsibility for it.

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Date: 6th April 6, 2020.

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BONAFIDE CERTIFICATE

Certified that this project report PRICE ESTIMATION OF USED CARS is the bonafide work of SUDHIR SIDHAARTHAN B, HARSH YADAV and NARAYAN YADAV who carried out the project work under my supervision.

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1. Description

This is a project in which the estimated price of a used car can be calculated.

This is a very simple program done using python. This program calculates the estimated price of the used cars by certain factors such as mileage, kilometers driven and the condition of the car.

2. Code

```
print("\t\tEstimation of price of used Cars")
company=input("Enter the make of the car")
model=input("Enter the model of the car")
year=int(input("Enter the year in which the car is made"))
km=int(input("Enter the distance driven in the car"))
mileage=int(input("Enter the mileage of the car"))
damage=int(input("Enter the number of damages/dents in the car"))
int_condition=input("Enter the internalcondition of the
car(bad,avergae,good,verygood)")
ext_condition=input("Enter the external condition of the
car(bad,average,good,verygood)")
print("The details of the car")
print("Brand - ",company)
print("Model - ",model)
print("Made in year - ",year)
print("Kilometres driven - ",km)
print("Mileage - ",mileage)
print("No of dents - ",damage)
```

```
print("Internal Condition - ",int_condition)
print("External Condition - ",ext_condition)
base_price = 500000
```

```
if year < 2010 and year>2000 :
```

```
    base_price -= 10000
```

```
    print("The price has been reduced by 10000 as the car was made  
before 2010")
```

```
if year<2000 :
```

```
    base_price -= 25000
```

```
    print("The price has been reduced by 25000 as the car was made  
before 2000")
```

```
if km>30000 and km<40000 :
```

```
    base_price -= 10000
```

```
    print("The price has been reduced by 10000 as the distance driven  
in the car is between 30000 and 40000 Kilometres")
```

```
if km>40000 and km<50000 :
```

```
    base_price -= 20000
```

```
    print("The price has been reduced by 20000 as the distance driven  
in the car is between 40000 and 50000 Kilometres")
```

```
if km>50000 :
```

```
    base_price -= 30000
```

```
    print("The price has been reduced by 30000 as the distance driven  
in the car exceeds 50000 Kilometres")
```

if mileage<20 and mileage>18 :

base_price -= 10000

print("The price has been reduced by 10000 as the mileage of the car is between 18-20 Kilometres")

if mileage<18 and mileage>15 :

base_price -= 15000

print("The price has been reduced by 15000 as the mileage of the car is between 15-18 Kilometres")

if mileage<15 :

base_price -=25000

print("The price has been reduced by 25000 as the mileage of the car is less than 15 Kilometres")

if damage==1 :

base_price -=5000

print("The price has been reduced by 5000 as the car has 1 dent")

if damage==2 :

base_price -=10000

print("The price has been reduced by 10000 as the car has 2 dents")

if damage==3 :

base_price -=15000

print("The price has been reduced by 15000 as the car has 3 dents")

if damage>=4 :

base_price -=20000

print("The price has been reduced by 20000 as the car has more than 3 dents")

```
if int_condition=="good" :
    base_price -= 10000
    print("The Internal condition of the cars is good, so the price has
    been reduced by 10000")
if int_condition=="average" :
    base_price -= 25000
    print("The Internal condition of the cars is average, so the price has
    been reduced by 25000")
if int_condition=="bad" :
    base_price-=40000
    print("The Internal condition of the cars is bad, so the price has
    been reduced by 40000")

if ext_condition == "good" :
    base_price -=7500
    print("The External condition of the cars is good, so the price has
    been reduced by 7500")
if ext_condition=="average" :
    base_price -=15000
    print("The External condition of the cars is average, so the price
    has been reduced by 15000")
if ext_condition=="bad" :
    base_price -=25000
    print("The External condition of the cars is bad, so the price has
    been reduced by 25000")
```


print("The estimated price of the used car with the information provided is ",base_price)

3. Screenshots

The first screenshot shows the initial code in the OnlineGDB Python compiler. The code prompts the user for car details and calculates the base price of 50000. It then applies several conditional price reductions based on the input values. The second screenshot shows the code after several conditional price reductions based on the input values.

```
1 print("\t\tEstimation of price of used Cars")
2 company=input("Enter the make of the car")
3 model=input("Enter the model of the car")
4 year=int(input("Enter the year in which the car is made"))
5 km=int(input("Enter the distance driven in the car"))
6 mileage=input("Enter the mileage of the car")
7 damage=int(input("Enter the number of damages/dents in the car"))
8 int_condition=input("Enter the internal condition of the car(bad,average,good,verygood)")
9 ext_condition=input("Enter the external condition of the car(bad,average,good,verygood)")
10 print("The details of the car")
11 print("Brand - ",company)
12 print("Model - ",model)
13 print("Made in year - ",year)
14 print("Kilometres driven - ",km)
15 print("Mileage - ",mileage)
16 print("No of dents - ",damage)
17 print("Internal Condition - ",int_condition)
18 print("External Condition - ",ext_condition)
19 base_price = 50000
20
21 if year < 2010 and year > 2000 :
22     base_price -= 10000
23     print("The price has been reduced by 10000 as the car was made before 2010")
24 if year < 2000 :
25     base_price -= 25000
26     print("The price has been reduced by 25000 as the car was made before 2000")
27
28 if km > 30000 and km < 40000 :
29     base_price -= 10000
30     print("The price has been reduced by 10000 as the distance driven in the car is between 30000 and 40000 Kilometres")
31 if km > 40000 and km < 50000 :
32     base_price -= 20000
33     print("The price has been reduced by 20000 as the distance driven in the car is between 40000 and 50000 Kilometres")
34 if km > 50000 :
35     base_price -= 30000
36     print("The price has been reduced by 30000 as the distance driven in the car exceeds 50000 Kilometres")
37
38 if mileage > 20 and mileage < 18 :
39     base_price -= 10000
40     print("The price has been reduced by 10000 as the mileage of the car is between 18-20 Kilometres")
41 if mileage < 18 and mileage > 15 :
42     base_price -= 15000
43     print("The price has been reduced by 15000 as the mileage of the car is between 15-18 Kilometres")
44 if mileage < 15 :
45     base_price -= 25000
46     print("The price has been reduced by 25000 as the mileage of the car is less than 15 Kilometres")
47
48 if damage == 1 :
49     base_price -= 5000
50     print("The price has been reduced by 5000 as the car has 1 dent")
51 if damage == 2 :
52     base_price -= 10000
53     print("The price has been reduced by 10000 as the car has 2 dents")
54 if damage == 3 :
55     base_price -= 15000
56     print("The price has been reduced by 15000 as the car has 3 dents")
57 if damage > 4 :
58     base_price -= 20000
59     print("The price has been reduced by 20000 as the car has more than 3 dents")
60
61 if int_condition == "good" :
62     base_price -= 10000
63     print("The internal condition of the cars is good, so the price has been reduced by 10000")
64 if int_condition == "average" :
65     base_price -= 25000
66     print("The internal condition of the cars is average, so the price has been reduced by 25000")
67 if int_condition == "bad" :
68     base_price -= 40000
69     print("The internal condition of the cars is bad, so the price has been reduced by 40000")
70
71 if ext_condition == "good" :
72     base_price -= 10000
73     print("The external condition of the cars is good, so the price has been reduced by 10000")
74 if ext_condition == "average" :
75     base_price -= 25000
76     print("The external condition of the cars is average, so the price has been reduced by 25000")
77 if ext_condition == "bad" :
78     base_price -= 40000
79     print("The external condition of the cars is bad, so the price has been reduced by 40000")
80
81 print("The estimated price of the used car with the information provided is ",base_price)
```

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main.py

Run Debug Stop Share Save Help Runnify

Language Python 3

```
48 damage = 1
49 base_price = 5000
50 print("The price has been reduced by 5000 as the car has 1 dent")
51 if damage == 2:
52     base_price = 10000
53     print("The price has been reduced by 10000 as the car has 2 dents")
```

Estimation of price of used Cars

Enter the make of the car: Maruti
Enter the model of the car: Swift
Enter the year in which the car is made: 2002
Enter the distance driven in the car: 34000
Enter the mileage of the car: 19
Enter the number of damages/dents in the car: 4
Enter the internal condition of the car (bad, average, good, very good): good
Enter the external condition of the car (bad, average, good, very good): average
The details of the car
brand - Maruti
Model - Swift
Made in year - 2002
Kilometres driven - 34000
Mileage - 19
No of dents - 4
Internal Condition - good
External Condition - average
The price has been reduced by 10000 as the car was made before 2010
The price has been reduced by 10000 as the distance driven in the car is between 30000 and 40000 Kilometres
The price has been reduced by 10000 as the mileage of the car is between 10-20 Kilometres
The price has been reduced by 20000 as the car has more than 3 dents
The internal condition of the car is good, so the price has been reduced by 10000
The External condition of the car is average, so the price has been reduced by 15000
The estimated price of the used car with the information provided is - 425000

...Program finished with exit code 0
Press ENTER to exit console.