(A Constituent College of Somaiya Vidyavihar University)

# TITLE: MINI-PROJECT

# AIM:

Program for a dealership of a car showroom which helps the user for determining the finances of the cars.

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## **PROJECT MADE BY:**

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#### Implementation details:

```
from prettytable import PrettyTable#Using the pyhton library prettytable

print("Welcome to XYZ MOTORS")

pdef car_name(name):#Function to record the car name

print("You are buying\t"+name)

print("You cost [p]:#Function to record the car price

print("You cost for buying the car is ₹ "_p)

pdef type_payment(y, p, name):#Function for payment method

bdp=(30*p)/100#storing 30% of cost in a varible bdp

if y==1:#Choice to make pyment in Cheque/Cash

m_int(input('1=Cheque, 2=Cash\n'))

if m==1:#Payment in cheque

total= p

print('Total price to pay is ₹ '_total)

t=total/5

payTable=PrettyTable({"Car Name"_"Car Price"_t})

payTable.add_row([name_p])

print(payTable, '\nDivide the cheques to 5\nAmount to be written per cheque ₹ '_tt)

if m==2:#Payment in cash

total=p

payTable=PrettyTable({"Car Name"_"Car Price"})

payTable.add_row([name_p])

print(payTable, '\nTotal price to pay is ₹ '_ttotal)
```

```
if y==2:#Payment using EMI

var="""

print("Please make a <u>downpayment</u> which should be more than or equal to 30"+var+" of the original car price")

down_payment_int(input("Please enter a value for down payment\n"))

if down_paymentz_bdp:#Checking whether the down payment is valid or not

print(" Welcome to EMI \n## SCHEMES AVAILABLE FOR EMI ### \n1 YEAR , 5 YEARS ")

emi_period = int(input(" Enter the period for emi: "))

if emi_period == 1:#Time period is for 1 year

rateTable.PrettyTable(["Option No."_"Bank Name"_"Rate"])#Table to show rate of interest per bank

rateTable.add_row(["1"_""SSI"_"06"])

rateTable.add_row(["5"_""AXIS"_"08"])

rateTable.add_row(["5"_""AXIS"_"05"])

rateTable.add_row(["5"_""AXIS"_"05"])

rateTable.add_row(["4"_""HSBC"_5.5"])

rateTable.add_row(["4"_""HSBC"_4"6.5%"])

rateTable.add_row(["4"_""HSBC"_4"6.5%"])

rateTable.add_row(["4"_""HSBC"_4"6.5%"])

rateTable.add_row(["4"_""HSBC"_4"6.5%"])

rateTable.add_row(["4"_""HSBC"_4"6.5%"])

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rateTable.add_row(["4"_""HSBC"_4"6.5%"])

rateTable.add_row(["4"_""HSBC"_4"6.5%"])

rateTable.add_row(["4"_4"HSBC"_4"6.5%"])

rateTable.add_row(["
```



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```
print("The interest for 1 year will be * ", interest_)

total_amount = adp + interest#Aadding interest to the remaing amount

emi_total_amount/12#Dividing to get per month payment

print(" Hence total amount will be * ", total_amount_"The amount to be paid per month for 1 year * "_emi]

payTable=PrettyTable(["Car Name"_"Car Price"_"Down Payment"_"Interest for 12 Months"_"Total After Down Payment"

payTable.add_row([name_p_down_payment_interest_total_amount_emi])

print(payTable)#Printing the table

elif emi_period == 5:#Time period is for 5 years

rateTable=PrettyTable(["Option No."_"Bank Name"_"Rate"])#Table to show rate of interest per bank

rateTable.add_row(["1"_"SBI"_"3%"])

rateTable.add_row(["3"_"HBFC"_"3.5%"])

rateTable.add_row(["3"_"HBFC"_"3.5%"])

rateTable.add_row(["4"_"HSBC"_"5%"])]

rateTable.add_row(["4"_"HSBC"_"5%"])

print("select the bank for loan("_var_"interest may vary")

rate[3_4_3.5_5_4.5]#List for rate

r_int(input("Please enter the number corresponding to the bank chosen\n"))

period = 5

adp_p-down_payment#Subtracting down payment from the price

print("Price to be paid after down payment from the price

print("Price to be paid after down payment from the price

print("Price to be paid after down payment from the price

print("Price to be paid after down payment from the price

print("Price to be paid after down payment from the price
```

```
interest = (adp * period * rate[r-1])/180#Calculating interest

print("The interest for 1 year will be * "_interest_"\n Therefore interest for 5 years * "_(interest*5))

total_amount/60#Dividing to get per month payment

print("Hence total amount will be * "_itotal_amount_"\nThe amount to be paid per month for 5 years * "_emi)

payTable=PrettyTable(["Car Name"_"Car Price"_"Down Payment"_"Interest for 12 Months"_"Total After Down Payment"_"Ep

payTable.add_row([name_p_down_payment_interest_total_amount_emi])

print(payTable)#Printing the table

clse:#If the input down payment is less than 36% it will show invalid

print("Please enter a valid downpayment")

type_payment(y_p_name)#Calling the function to re-enter the down payment

car_tst=['Suzuki Swift', 'Kia Seltos', 'Toyota Innova', 'Ford Ecosport', 'Hyundai Creta', 'MG Hector', 'Honda City', 'Toyota Fortuner', 'Toyotal-roty', 'Toy
```

```
myTable_PrettyTable(["Option No."_"Car Name"_A"Car Price"_"Minimum Down Payment"])#Creating a table using prettytable
myTable.add_row(["1"_A"Suzuki Swift"_x"₹5,00,000"_X"₹4,20,000"])
myTable.add_row(["2"_A"Kia Seltos"_x"₹14,00,000"_X"₹4,20,000"])
myTable.add_row(["4"_Ford Ecosport"_x"₹12,00,000"_x"₹3,60,000"])
myTable.add_row(["4"_X"Ford Ecosport"_x"₹12,00,000"_x"₹3,60,000"])
myTable.add_row(["5"_A"Hyundai Creta"_x"₹18,00,000"_x"₹5,40,000"])
myTable.add_row(["6"_x"Honda City"_x"₹18,00,000"_x"₹5,40,000"])
myTable.add_row(["8"_x"Toyota Fortuner"_x"₹19,00,000"_x"₹12,00,000"])
myTable.add_row(["9"_x"Tata Safari"_x"₹19,00,000"_x"₹5,70,000"])
myTable.add_row(["10"_x"Hyndai Venuer_x"₹13,00,000"_x"₹3,70,000"])
myTable.add_row(["10"_x"Hyndai Venuer_x"₹13,00,0000"_x"₹3,70,000"])
myTable.add_row(["10"_x"Hyndai Venuer_x"₹13,00,0000"_x"₹1,50,0000"])
myTable.add_row(["10"_x"Hyndai Venuer_x"₹13,00,0000"_x"₹1,50,000"])
myTable.add_row(["10"_x"Hyndai Venuer_x"₹13,00,0000
```



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Code:

```
from prettytable import PrettyTable#Using the pyhton library prettytable
print("Welcome to XYZ MOTORS")
def car_name(name):#Function to record the car name
  print("You are buying\t"+name)
def initial_cost(p):#Function to record the car price
  print("Your cost for buying the car is ₹ ",p)
def type payment(y,p,name):#Function for payment method
  bdp=(30*p)/100#storing 30% of cost in a varible bdp
  if v==1:#Choice to make pyment in Cheque/Cash
     m=int(input('1=Cheque,2=Cash\n'))
     if m==1:#Payment in cheque
       total= p
       print('Total price to pay is ₹ ',total)
       t=total/5
       payTable=PrettyTable({"Car Name","Car Price",})
       payTable.add_row([name,p])
       print(payTable, '\nDivide the cheques to 5\nAmount to be written per
cheque ₹',t)
     if m==2:#Payment in cash
       total=p
       payTable=PrettyTable({"Car Name","Car Price"})
       payTable.add row([name,p])
       print(payTable, '\nTotal price to pay is ₹',total)
  if y==2:#Payment using EMI
     var="%"
     print("PLease make a downpayment which should be more than or equal
to 30"+var+" of the original car price")
     down_payment=int(input("Please enter a value for down payment\n"))
     if down payment>=bdp:#Checking whether the down payment is valid or
not
       print(" Welcome to EMI \n### SCHEMES AVAILABLE FOR EMI ### \n1
YEAR . 5 YEARS ")
       emi_period = int(input(" Enter the period for emi: "))
       if emi_period == 1:#Time period is for 1 year
          rateTable=PrettyTable(["Option No.", "Bank Name", "Rate"])#Table to
show rate of interest per bank
         rateTable.add_row(["1","SBI","6%"])
         rateTable.add_row(["2","AXIS","8%"])
         rateTable.add_row(["3","HDFC","7%"])
         rateTable.add_row(["4","HSBC","6.5%"])
         rateTable.add_row(["5","KOTAK","8.5%"])
         print(rateTable)#Printing rate table
         print("Select the bank for loan",var,"interest may vary ")
          rate=[6,8,7,6.5,8.5]#List for rate
```



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```
r=int(input("Please enter the number corresponding to the bank
chosen\n"))#Taking user input for choice of bank
         period = 1
         adp=p-(down_payment)#Subtracting down payment from the price
         print("Price to be paid after down payment ₹ ",adp)
         interest = (adp * period * rate[r-1])/100#Calculating interest
         print("The interest for 1 year will be ₹ ", interest )
         total_amount = adp + interest#Aadding interest to the remaing
amount
         emi=total_amount/12#Dividing to get per month payment
         print(" Hence total amount will be ₹ ", total amount, "The amount to
be paid per month for 1 year ₹ ",emi)
          payTable=PrettyTable(["Car Name","Car Price","Down
Payment", "Interest for 12 Months", "Total After Down Payment", "EMI"]) #Table to
show the user choices and payments
payTable.add_row([name,p,down_payment,interest,total_amount,emi])
          print(payTable)#Printing the table
       elif emi period == 5:#Time period is for 5 years
          rateTable=PrettyTable(["Option No.","Bank Name","Rate"])#Table to
show rate of interest per bank
          rateTable.add_row(["1","SBI","3%"])
         rateTable.add row(["2","AXIS","4%"])
         rateTable.add_row(["3","HDFC","3.5%"])
          rateTable.add row(["4","HSBC","5%"])
         rateTable.add_row(["5","KOTAK","4.5%"])
         print(rateTable)#Printing rate table
         print("Select the bank for loan(",var,"interest may vary")
         rate=[3,4,3.5,5,4.5]#List for rate
         r=int(input("Please enter the number corresponding to the bank
chosen\n"))
         period = 5
         adp=p-down payment#Subtracting down payment from the price
         print("Price to be paid after down payment ₹ ",adp)
         interest = (adp * period * rate[r-1])/100#Calculating interest
         print("The interest for 1 year will be ₹ ",interest,"\n Therefore interest
for 5 years ₹ ",(interest*5))
         total amount = adp + (interest*5)#Aadding interest to the remaing
amount
         emi=total amount/60#Dividing to get per month payment
         print("Hence total amount will be ₹ ",total amount,"\nThe amount to
be paid per month for 5 years ₹ ",emi)
         payTable=PrettyTable(["Car Name","Car Price","Down
Payment", "Interest for 12 Months", "Total After Down Payment", "EMI"]) #Table to
show the user choices and payments
payTable.add_row([name,p,down_payment,interest,total_amount,emi])
```

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print(payTable)#Printing the table



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else:#If the input down payment is less than 30% it will show invalid print("Please enter a valid downpayment")

type\_payment(y,p,name)#Calling the function to re-enter the down payment

car\_lst=['Suzuki Swift','Kia Seltos','Toyota Innova','Ford Ecosport','Hyundai Creta','MG Hector','Honda City','Toyota Fortuner','Tata Safari','Hyundai Venue']#List of Cars

myTable=PrettyTable(["Option No.","Car Name","Car Price","Minimum Down Payment"])#Creating a table using prettytable

myTable.add\_row(["1","Suzuki Swift","₹5,00,000","₹1,50,000"])

myTable.add\_row(["2","Kia Seltos","₹14,00,000","₹4,20,000"])

myTable.add\_row(["3","Toyota Innova","₹30,00,000","₹9,00,000"])

myTable.add row(["4","Ford Ecosport","₹12,00,000","₹3,60,000"])

myTable.add row(["5","Hyundai Creta","₹15,00,000","₹4,50,000"])

myTable.add row(["6","MG Hector","₹18,00,000","₹5,40,000"])

myTable.add\_row(["7","Honda City","₹15,00,000","₹4,50,000"])

myTable.add row(["8","Toyota Fortuner","₹40,00,000","₹12,00,000"])

myTable.add\_row(["9","Tata Safari","₹19,00,000","₹5,70,000"])

myTable.add row(["10","Hyndai Venue","₹13,00,000","₹3,90,000"])

print(myTable)#Printing the table

c\_name = int(input("Enter the option of the car\n"))#Taking input from user for the choice of car

c name=c name-1#-1 because list starts with 0

car\_name(car\_lst[c\_name])#Calling the function car\_name()

x=[500000,1400000,3000000,1200000,1500000,1800000,1500000,4000000,1 900000,1300000]#List of prices for the cars

initial\_cost(x[c\_name])#The same number input is used for the car choosen print("Enter 1 for cheque/cash payment 2 for emi payment")#Displaying options for payment method

l=int(input("enter payment method\n"))#Taking input from the user type\_payment(l,x[c\_name],car\_lst[c\_name])#Calling the function typr\_payment()



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#### **Output(s):**

```
Welcome to XYZ MOTORS
| Option No. | Car Name | Car Price | Minimum Down Payment |
    -----
    1 | Suzuki Swift | ₹5,00,000 | ₹1,50,000
             Kia Seltos | ₹14,00,000 |
                                         ₹4,20,000
         | Toyota Innova | ₹30,00,000 |
                                         ₹9,00,000
         | Ford Ecosport | ₹12,00,000 |
                                         ₹3,60,000
         | Hyundai Creta | ₹15,00,000 |
                                         ₹4,50,000
              MG Hector | ₹18,00,000 |
                                         ₹5,40,000
              Honda City | ₹15,00,000 |
                                         ₹4,50,000
         | Toyota Fortuner | ₹40,00,000 |
                                         ₹12,00,000
         | Tata Safari | ₹19,00,000 |
                                         ₹5,70,000
             Hyndai Venue | ₹13,00,000 |
                                          ₹3,90,000
Enter the option of the car
You are buying Suzuki Swift
Your cost for buying the car is ₹ 500000
Enter 1 for cheque/cash payment 2 for emi payment
enter payment method
```

#### **OUTPUT FOR EMI:**

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#### **OUTPUT FOR CASH:**

#### **Conclusion:**

Hence this program will help in simplifying the transactions for car dearship showrooms.