**EDS THEORY ASSIGNMENT 2: -**

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**Questions: -**

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import pandas as pd

car=pd.read_csv("EDS Assignment 4.csv")

#1) print all records of dataset
print("1)",car)

#2) print model name and its manufacturing year
print("2)",car[['name','year']])

#3) describe
print("3)",car.describe())

#4) print the mean of selling price
```

```
print("4) Mean of car selling price is
:",car['selling_price'].mean())

#5) print median of km driven
print("5) Median of kilometers driven :
",car['km_driven'].median())

#6) print most recent car year
print("6)  Most recent car manufactured year
:",car['year'].max())

#7) print correlation
print("7) The correlation is :",car.corr())

#8) aggregation
print("8) The aggregation
is:",car.groupby('selling_price').sum())

#9) print name of cars in upper case
print("9)",car['name'].str.upper())

#10) Display the records of first 50 cars
print("10) Record of first 50 cas:",car.iloc[1:50])
```

```
#11) Count of First owner
a=car.groupby('owner').get_group("First Owner")
print(a)
b=a.count()
print("11)",b)

#12) Desplay records of automatic car
transmission
a=car['transmission']
b=car.groupby('transmission').get_group("Automat
ic")
print("12) Records of automatic car transmission
:",b)

#13) print the name of the oldest car
a=car['year'].min()
b=car.loc[car['year']==a,'name'].iloc[0]
print("13) The name of the oldest car:",b)

#14) print the mode of selling type
print("14) Mode of car selling type is
:",car['selling_price'].mode())
```

```
#15) Display missing value in years
miss=car['year']
print("15) The missing values in year
is:",miss.isnull())

#16)Display varience of pH in wine
j=car['selling_price']
k=j.var()
print("16) Variance of selling price:",k)

#17) Duplicated names
print("17) Duplicated ",car["name"].duplicated())

#18) Convert km driven from int to float (data type
conversion)
print("18) Conversion of km driven from int to float
",car["km_driven"].astype(float))

#19) Data transformation
car["km_driven_in_miles"] =
round(car["km_driven"]*0.621, 1)
print("19)",car["km_driven_in_miles"].head(10))
```

```
#20)covariance
print("20)",car.cov())
```