```
// Write a PHP script to keep track of number of times the web page has been accessed (Use Session
Tracking).
<?php
    session start();
    if(!isset($ SESSION['count']))
        echo"Welcome you have viwed this page first time";
        $ SESSION['count'] = 1;
    else
       $ SESSION['count']++;
        echo"You have viewed this page ".$ SESSION['count']." times";
?>
#Create 'Position Salaries' Data set. Build a linear regression model by identifying independent and
target variable. Split the variables into training and testing sets, then divide the training and testing
sets into a 7:3 ratio, respectively and print them. Build a simple linear regression model.
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn.model selection import train test split
from sklearn.linear model import LinearRegression
from sklearn.metrics import r2 score, mean squared error
salary = pd.read csv('CSV/Position Salaries.csv')
salary.sample(5)
new sal = salary[['Level', 'Salary']]
x = np.array(new sal[['Level']])
y = np.array(new sal[['Salary']])
x train, x test, y t/rain, y test = train test split(x,y), test size=0.70, random state=0)
regret = LinearRegression()
regret.fit(x train,y train)
plt.scatter(x test, y test, color = 'green')
plt.plot(x train, regret.predict(x train), color='red',linewidth=3)
plt.title('Regression(Position_salaries)')
plt.xlabel('Level')
plt.ylabel('Salary')
plt.show()
```

//Write a PHP script to change the preferences of your web page like font style, font size, font color, background color using cookie. Display selected setting on next web page and actual implementation (with new settings) on third page (Use Cookies).

```
//html file
<html>
<body>
<form action="1.php" method="get">
<center>
<b>select font style:</b><input type=text name=s1><br>
<b>Enter font size:</b><input type=text name=s><br>
<br/>

<br/>
<br/>
<br/>
d>Enter background color:</b><input type=text name=b><br>
<input type=submit value="Next">
</center>
</form>
</body>
<html>
//php1 file
<?php
             echo "Style is ".$_GET['s1']." Color is ".$_GET['c']." Background color is ".$_GET['b']." size is
".$ GET['s'];
             setcookie("set1",$ GET['s1'],time()+3600);
             setcookie("set2",$ GET['c'],time()+3600);
             setcookie("set3",$ GET['b'],time()+3600);
             setcookie("set4",$ GET['s'],time()+3600);
?>
<a href="2.php"><br>Show</a>
//php2 file
<?php
$style=$ COOKIE['set1'];
$color=$ COOKIE['set2'];
$size=$ COOKIE['set4'];
$b color=$ COOKIE['set3'];
$msg="Hello php";
echo" < body bgcolor = $b color > ";
echo"<font color=$color size=$size face=$style>$msg";
echo"</font></body>";
?>
```

```
regression model for predicting purchases.
import numpy as np
import pandas as pd
from sklearn.model selection import train test split
from sklearn.linear model import LinearRegression
from sklearn.metrics import mean squared error
import matplotlib.pyplot as plt
num samples = 1000
salary mean = 50000
salary_std = 10000
purchases slope = 0.001
purchases intercept = 10
salary = np.random.normal(salary mean, salary std, num samples)
purchases = salary * purchases slope + purchases intercept + np.random.normal(0, 5, num samples)
data = pd.DataFrame({'Salary': salary, 'Purchases': purchases})
X = data[['Salary']]
y = data['Purchases']
X train, X test, y train, y test = train test split(X, y, test size=0.2, random state=42)
model = LinearRegression()
model.fit(X train, y train)
train_rmse = np.sqrt(mean_squared_error(y_train, model.predict(X_train)))
test rmse = np.sqrt(mean squared error(y test, model.predict(X test)))
print("Training RMSE:", train rmse)
print("Testing RMSE:", test rmse)
plt.scatter(X test, y test, color = 'green')
plt.plot(X train, model.predict(X train), color='red',linewidth=3)
plt.title('Regression(Salary)')
plt.xlabel('Salary')
plt.ylabel('Purchases')
plt.show()
```

//Create 'Salary' Data set . Build a linear regression model by identifying independent and target variable. Split the variables into training and testing sets and print them. Build a simple linear

Slip no 3

//Write a PHP script to accept username and password. If in the first three chances, username and password entered is correct then display second form with "Welcome message" otherwise display error message. [Use Session]

```
//php1
<?php
session start();
$correctUsername = "admin";
$correctPassword = "admin";
if (!isset($ SESSION['login attempts']))
    $ SESSION['login attempts'] = 0;
if ($ SERVER['REQUEST METHOD'] === 'POST')
    $ SESSION['login attempts']++;
    $enteredUsername = $_POST['username'];
    $enteredPassword = $ POST['password'];
    if ($enteredUsername === $correctUsername && $enteredPassword === $correctPassword)
        unset($_SESSION['login_attempts']);
       header("Location: php2.php");
        exit();
    elseif ($_SESSION['login_attempts'] >= 3)
        unset($ SESSION['login attempts']);
        session destroy();
        exit();
?>
<form method="post" action="">
    <label for="username">Username:</label>
    <input type="text" name="username" required><br>
    <label for="password">Password:</label>
    <input type="password" name="password" required><br>
    <input type="submit" value="Login">
</form>
<?php if (\$_SESSION['login_attempts'] > 0 && $\_SESSION['login_attempts'] < 3): ?>
    Remaining login attempts: <?php echo 3 - $_SESSION['login_attempts']; ?>
<?php endif; ?>
//php2
<?php
echo "Welcome to my web page!";
```

print(result)

Build a logistic regression model that can predict whether on the given parameter a person will buy a car or not. from sklearn.model selection import train test split from sklearn.linear model import LogisticRegression from sklearn.metrics import accuracy_score, classification_report import pandas as pd df = pd.read csv('./csv/User Data.csv') # Perform one-hot encoding on the 'Gender' column df = pd.get dummies(df, columns=['Gender'], drop first=True) X = df[['Gender Male', 'Age', 'EstimatedSalary']] y = df['Purchased'] X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.25, random_state=15) model = LogisticRegression(max iter=1000) model.fit(X_train, y_train) y pred = model.predict(X test) df def predict purchase(gender, age, salary, model): gender num = 1 if gender.lower() == 'male' else 0 input data = pd.DataFrame([[gender num, age, salary]], columns=['Gender Male', 'Age', 'EstimatedSalary']) prediction = model.predict(input data) return "Will Purchase a car" if prediction[0] == 1 else "Will Not Purchase a car" gender = "Male" age = 42salary = 149000result = predict purchase(gender, age, salary, model)

#Create 'User' Data set having 5 columns namely: User ID, Gender, Age, Estimated Salary and Purchased.

```
//Write a PHP script to accept Employee details (Eno, Ename, Address) on first page. On second
page accept earning (Basic, DA, HRA). On third page print Employee information (Eno, Ename, Address,
Basic, DA, HRA, Total) [ Use Session]
//html1
<html>
<body>
<form action="php1.php" method="post">
<center><h2>Enter employee details</h2><br>
<t.r>
<br>Emp no</b>
<input type=text name=eno>
<input type=text name=enm>
<b>Address</b>
<input type=text name=eadd>
<br><input type=submit value=show name=submit>
</center>
</form>
</body>
</html>
//php1
<?php
session start();
$eno=$ POST['eno'];
$enm=$ POST['enm'];
$eadd=$ POST['eadd'];
$ SESSION['eno']=$eno;
$ SESSION['enm']=$enm;
$ SESSION['eadd']=$eadd;
?>
<a href="p2.html"><br>Show</a>
//html2
<html>
<body>
<form action="php2.php" method="post">
<center><h2>Enter earnings of employee</h2><br>
```

```
Basic:
<input type="text" name="e1">
DA:
<input type="text" name="e2">
HRA:
<input type="text" name="e3">
</center>
</form>
</body>
</html>
//php2
<?php
session_start();
$e1=$ POST['e1'];
$e2=$ POST['e2'];
$e3=$ POST['e3'];
echo"Employee Details";
echo "<br>Eno:".$ SESSION['eno']."<br>";
echo "Name:".$ SESSION['enm']."<br>";
echo "Address:".$_SESSION['eadd']."<br>";
echo "class:".$ SESSION['eadd']."<br>";
echo"basic:".$e1."<br>";
echo"DA:".$e2."<br>";
echo"HRA:".$e3."<br>";
$total=$e1+$e2+$e3;
echo"<h2>total of earnings is".$total."</h2>";
?>
#Build a simple linear regression model for Fish Species Weight Prediction.
import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear model import LinearRegression
from sklearn.metrics import mean squared error, r2 score
fish data = pd.read csv('CSV/Fish.csv')
X = fish data[['Width']] # Features
y = fish data['Weight'] # Target variable
```

```
X train, X test, y train, y test = train test split(X, y, test size=0.2, random state=42)
model = LinearRegression()
model.fit(X train, y train)
y pred = model.predict(X test)
mse = mean squared error(y test, y pred)
r2 = r2 score(y test, y pred)
print("Mean Squared Error:", mse)
print("R-squared:", r2)
print("\nCoefficients:", model.coef )
print("Intercept:", model.intercept )
plt.scatter(X test, y test, color = 'green')
plt.plot(X train, model.predict(X train), color='red',linewidth=3)
plt.title('Regression(Salary)')
plt.xlabel('Features')
plt.ylabel('Weight')
plt.show()
```

```
//Create XML file named "Item.xml"with item-name, item-rate, item quantity Store the details of 5 Items
of different Types
<?xml version="1.0" encoding="UTF-8"?>
<ItemDetails>
<Item>
<ItemName>Shoes
<ItemPrice>1000</ItemPrice>
<Quantity>3</Quantity>
</Item>
<Ttem>
<ItemName>Jeans
<ItemPrice>900</ItemPrice>
<Quantity>1</Quantity>
</Item>
<Item>
<ItemName>Watch</ItemName>
<ItemPrice>2000</ItemPrice>
<Quantity>1</Quantity>
</Item>
<ItemName>Phone</ItemName>
<ItemPrice>20000</ItemPrice>
<Quantity>1</Quantity>
</Item>
<ItemName>Laptop</ItemName>
<ItemPrice>40000</ItemPrice>
<Quantity>1</Quantity>
</Item>
```

</ItemDetails>

#Use the iris dataset. Write a Python program to view some basic statistical details like percentile, mean, std etc. of the species of 'Iris-setosa', 'Iris-versicolor' and 'Iris-virginica'. Apply logistic regression on the dataset to identify different species (setosa, versicolor, verginica) of Iris flowers given just 4 features: sepal and petal lengths and widths.. Find the accuracy of the model.

```
import numpy as np
import pandas as pd
from sklearn.datasets import load iris
from sklearn.model selection import train test split
from sklearn.linear model import LogisticRegression
from sklearn.metrics import accuracy score
from scipy import stats
iris data = pd.read csv('CSV/Iris.csv')
X = iris data[['SepalLenghCm', 'SepalWidthCm', 'PetalLengthCm', 'PetalWidthCm']]
y = iris data['Species']
X train, X test, y train, y test = train test split(X, y, test size=0.2, random state=42)
model = LogisticRegression(max iter=1000)
model.fit(X train, y train)
y pred = model.predict(X test)
accuracy = accuracy score(y test, y pred)
print("\nAccuracy of the Logistic Regression model:", accuracy)
plt.scatter(X test, y test, color = 'green')
plt.plot(X train, model.predict(X train), color='red',linewidth=3)
plt.title('Regression(Salary)')
plt.xlabel('Features')
plt.ylabel('Species')
plt.show()
```

```
Write PHP script to read "book.xml" file into simpleXML object. Display attributes and elements . (
    simple_xml_load_file() function )

//xml

<?xml version="1.0" encoding="UTF-8"?>

<BookInfo>
    <book>
    <bookno>1</bookno>
    <bookname>java</bookname>
<authorname>Balguru Swami</authorname>
    <price>250</price>
<year>2006</year>
</book>
```

```
<book>
<bookno>2</bookno>
<bookname>c</bookname>
<authorname>Denic Ritchie</authorname>
<price>500</price>
<year>1971
</book>
</BookInfo>
//php1
<?php
$xml=simplexml load file("book.xml");
foreach($xml->book as $bk)
 echo"Book Number=$bk->bookno<br>";
 echo"Book Name=$bk->bookname<br>";
 echo"AuthorNumber=$bk->authorname<br>";
 echo"price=$bk->price<br>";
 echo"year=$bk->year<br>";
?>
#Create the following dataset in python & Convert the categorical values into numeric format. Apply the
apriori algorithm on the above dataset to generate the frequent itemsets and association rules. Repeat
the process with different min sup values.
import numpy as np
import pandas as pd
from mlxtend.frequent patterns import apriori, association rules
transactions = [['Bread', 'Milk'], ['Bread', 'Diaper', 'Eggs'], ['Milk', 'Diaper', 'Beer', 'Coke'],
['Bread','Milk','Diaper','Beer'],['Bread','Milk','Diaper','Coke']]
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit(transactions).transform(transactions)
df=pd.DataFrame(te array, columns=te.columns)
df = df.astype(int)
df
freq_items = apriori(df, min_support = 0.5, use_colnames = True)
print(freq items)
rules = association rules(freq items, metric ='support', min threshold=0.05)
rules = rules.sort_values(['support', 'confidence'], ascending =[False,False])
rules
```

```
//Write a PHP script to read "Movie.xml" file and print all MovieTitle and ActorName of file using
DOMDocument Parser. "Movie.xml" file should contain following information with at least 5 records with
values. MovieInfoMovieNo, MovieTitle, ActorName , ReleaseYear
//xml
<?xml version="1.0" encoding="UTF-8"?>
<MovieInfo>
<Movie>
<Movieno>1</Movieno>
<Movietitle>war</Movietitle>
<Actorname>Hritik Roshan</Actorname>
<year>2019
</Movie>
<Movie>
<Movieno>2</Movieno>
<Movietitle>Pathan</Movietitle>
<Actorname>Sharukh Khan</Actorname>
<year>2023
</Movie>
</MovieInfo>
//php1
<?php
$dom = new DomDocument();
$dom->load("movie.xml");
echo "<h2>Names of the Movies and their Actors:</h2>";
$movies = $dom->getElementsByTagName("Movie");
foreach ($movies as $movie) {
    $title = $movie->getElementsByTagName("Movietitle")->item(0)->textContent;
    $actor = $movie->getElementsByTagName("Actorname")->item(0)->textContent;
    echo "<b>Movie Title:</b> $title<br>";
    echo "<b>Actor Name:</b> $actor<br><";
?>
#Download the Market basket dataset. Write a python program to read the dataset and display its
#information. Preprocess the data (drop null values etc.) Convert the categorical values into numeric
format. Apply the apriori algorithm on the above dataset to generate the frequent itemsets and
association rules
import pandas as pd
from mlxtend.frequent_patterns import apriori,association_rules
df=pd.read csv('CSV/Market Basket Optimisation.csv')
df=df.sample(50)
df
```

transactions=[]

for i in range(0,len(df)):

```
transactions.append([str(df.values[i,j])for j in
range(0,len(df.columns))if(str(df.values[i,j])!='nan')])
transactions
df.dropna(inplace=True,axis=0)
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit transform(transactions)
te array = te array.astype('int')
dfl=pd.DataFrame(te array,columns=te.columns)
df1
freq items=apriori(df1,min support=0.005,use colnames=True)
freq items
rules=association rules(freq items, metric='support', min threshold=0.005)
rules=rules.sort values(['support','confidence'])
rules.tail()
                                               Slip no 8
//Write a JavaScript to display message 'Exams are near, have you started preparing for?' (usealert box )
and Accept any two numbers from user and display addition of two number .(Use Prompt and confirm box)
<html>
<head>
   <title>Exam Preparation</title>
</head>
<body>
<script>
    var userInputPrompt = confirm('Exams are near, have you started preparing for?');
        if (userInputPrompt == true)
        {
            alert('Great! Keep up the good work!');
    else
            prompt('You should start preparing!');
    var num1 = prompt('Enter num1: ');
    var num2 = prompt('Enter num2: ');
    var addn = Number(num1) + Number(num2);
    alert("Addition of num1 and num2 = " + addn);
</script>
</body>
</html>
```

```
//Download the groceries dataset. Write a python program to read the dataset and display its information.
Preprocess the data (drop null values etc.) Convert the categorical values into numeric format. Apply the
apriori algorithm on the above dataset to generate the frequent itemsets and association rules.
import pandas as pd
from mlxtend.frequent patterns import apriori, association rules
df=pd.read csv('CSV/groceries.csv')
df=df.sample(50)
df
transactions=[]
for i in range(0,len(df)):
      transactions.append([str(df.values[i,j])for j in
range(0,len(df.columns))if(str(df.values[i,j])!='nan')])
transactions
df.dropna(inplace=True,axis=0)
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit transform(transactions)
te array = te array.astype('int')
df1=pd.DataFrame(te array,columns=te.columns)
df1
freq items=apriori(df1,min support=0.005,use colnames=True)
freq items
rules=association rules(freq items, metric='support', min threshold=0.005)
rules=rules.sort values(['support','confidence'])
rules.tail()
                                               Slip no 9
//Write a JavaScript function to validate username and password for a membership form
<script>
    function validateform() {
        var name = document.myform.name.value;
        var password = document.myform.password.value;
        if (name == null || name == "") {
            alert("Name can't be blank");
            return false;
        } else if (password.length < 6) {</pre>
            alert("Password must be at least 6 characters long.");
            return false;
```

</script>

```
<body>
    <form name="myform" method="post" onsubmit="return validateform()">
        Name: <input type="text" name="name"><br />
        Password: <input type="password" name="password"><br />
        <input type="submit" value="register">
    </form>
</body>
#Create your own transactions dataset and apply the above process on your dataset.
import pandas as pd
from mlxtend.frequent patterns import apriori, association rules
transaction=[['sugar','tea'],['coffee','tea','sugar'],['tea','coffee'],['coffee','suagr','tea','milk']]
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit(transaction).transform(transaction)
df=pd.DataFrame(te array,columns=te.columns)
df = df.astype(int)
freq items=apriori(df,min support=0.5,use colnames=True)
rules=association rules(freq items, metric='support', min threshold=0.05)
rules=rules.sort values(['support','confidence'],ascending=[False,False])
rules
                                              Slip no 10
//Create a HTML fileto insert text before and after a Paragraph using jQuery. [Hint : Use before() and
```

#Create the following dataset in python & Convert the categorical values into numeric format.Apply the apriori algorithm on the above dataset to generate the frequent itemsets and association rules. Repeat the process with different min sup values.

```
import pandas as pd
from mlxtend.frequent patterns import apriori, association rules
transactions = [['eggs','milk','bread'],['eggs','apple'],['milk','bread'],['apple', 'milk'],
['milk','apple','bread']]
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit(transactions).transform(transactions)
df=pd.DataFrame(te array, columns=te.columns)
df = df.astype(int)
df
freq_items = apriori(df, min_support = 0.5, use_colnames = True)
print(freq items)
rules = association rules(freq items, metric ='support', min threshold=0.05)
rules = rules.sort values(['support', 'confidence'], ascending =[False,False])
rules
                                               Slip no 11
//Write a Javascript program to accept name of student, change font color to red, font size to 18 if
student name is present otherwise on clicking on empty text box display image which changes its size (Use
onblur, onload, onmousehover, onmouseclick, onmouseup)
<html>
<body>
  <label for="studentName">Enter Student Name:</label>
  <input type="text" id="studentName" onblur="changeStyle()" onmouseover="displayImage()"</pre>
onmouseout="hideImage()" onclick="changeImageSize()" onmouseup="hideImage()">
 <div id="outputImage">
    <img src="img.png" alt="Image" id="studentImage" onload="changeImageSize()">
  </div>
  <script>
    function changeStyle() {
      var studentNameInput = document.getElementById('studentName');
     if (studentNameInput.value.trim() !== '') {
        studentNameInput.style.color = 'red';
        studentNameInput.style.fontSize = '18px';
    function displayImage() {
      var studentNameInput = document.getElementById('studentName');
```

import numpy as np

```
if (studentNameInput.value.trim() === '') {
        var outputImage = document.getElementById('outputImage');
        outputImage.style.display = 'block';
    function hideImage() {
     var outputImage = document.getElementById('outputImage');
      outputImage.style.display = 'none';
    function changeImageSize() {
      var studentImage = document.getElementById('studentImage');
      studentImage.style.width = '200px';
  </script>
</body>
</html>
#Create the following dataset in python & Convert the categorical values into numeric format. Apply the
apriori algorithm on the above dataset to generate the frequent itemsets and associationrules. Repeat the
process with different min sup values.
import numpy as np
import pandas as pd
from mlxtend.frequent patterns import apriori, association rules
transactions = [['eggs','milk','bread'],['eggs','apple'],['milk','bread'],['apple', 'milk'],
['milk','apple','bread']]
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit(transactions).transform(transactions)
df=pd.DataFrame(te_array, columns=te.columns_)
df = df.astype(int)
df
freq_items = apriori(df, min_support = 0.5, use_colnames = True)
print(freq items)
rules = association rules(freq items, metric ='support', min threshold=0.05)
rules = rules.sort values(['support', 'confidence'], ascending =[False,False])
rules= rules.sort values(['support', 'confidence'], ascending =[False,False])
```

//Write AJAX program to read contact.dat file and print the contents of the file in a tabular format when the user clicks on print button. Contact.dat file should contain srno, name, residence number, mobile

```
number, Address.
//html
<html>
<head>
   <script type="text/javascript">
       function print() {
          var ob = false;
          ob = new XMLHttpRequest();
          ob.open("GET", "1.php?");
          ob.send();
          ob.onreadystatechange = function () {
             if (ob.readyState == 4 && ob.status == 200) {
                 document.getElementById("i").innerHTML = ob.responseText;
   </script>
</head>
<body>
   <center>
      <h3>Display the contents of a contact.dat file </h3>
       <br><input type="button" value=Print onclick="print()">
      <span id="i"></span>
   </center>
</body>
</html>
//php
<?php
   $fp = fopen('contacts.dat','r');
   echo "";
   echo "Sr. No.Name";
   while($row = fscanf($fp,"%s %s %s %s %s"))
      echo "";
      foreach($row as $r)
          echo "$r";
      echo "";
   echo "";
   fclose($fp);
?>
```

#Create 'heights-and-weights' Data set . Build a linear regression model by identifying independent and target variable. Split the variables into training and testing sets and print them. Build a simple linear regression model for predicting purchases.

```
import numpy as np
import pandas as pd
from sklearn.model selection import train test split
from sklearn.linear model import LinearRegression
from sklearn.metrics import mean squared error
num samples = 1000
heights = np.random.normal(170, 10, num samples)
weights = 0.5 * heights + 30 + np.random.normal(0, 5, num samples)
data = pd.DataFrame({'Height': heights, 'Weight': weights})
X = data[['Height']]
y = data['Weight']
X train, X test, y train, y test = train test split(X, y, test size=0.2, random state=42)
model = LinearRegression()
model.fit(X train, y train)
train rmse = np.sqrt(mean squared error(y train, model.predict(X train)))
test rmse = np.sqrt(mean squared error(y test, model.predict(X test)))
print("Training RMSE:", train rmse)
print("Testing RMSE:", test_rmse)
plt.scatter(X test, y test, color = 'green')
plt.plot(X train, model.predict(X train), color='red',linewidth=3)
plt.title('Regression(Height Weight)')
plt.xlabel('Height')
plt.ylabel('Weight')
plt.show()
```

Slip no 13

//Write AJAX program where the user is requested to write his or her name in a text box, and the server keeps sending back responses while the user is typing. If the user name is not entered then the message displayed will be, "Stranger, please tell me your name!". If the name is Rohit, Virat, Dhoni, Ashwin or Harbhajan , the server responds with "Hello, master !". If the name is anything else, the message will be ", I don't know you!"

```
//html
<html>
<body>
<label for="nameInput">Enter your name:</label>
<input type="text" id="nameInput">
```

```
Stranger, please tell me your name!
<script>
document.addEventListener('DOMContentLoaded', function() {
 var nameInput = document.getElementById('nameInput');
 var responseElement = document.getElementById('response');
  function checkName() {
    var name = nameInput.value.trim();
    if (name === '') {
     responseElement.textContent = 'Stranger, please tell me your name!';
     return;
    var xhr = new XMLHttpRequest();
    xhr.open('POST', '1.php', true);
    xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
    xhr.onreadystatechange = function() {
     if (xhr.readyState === 4 && xhr.status === 200) {
        responseElement.textContent = xhr.responseText;
    };
    xhr.send('name=' + encodeURIComponent(name));
  nameInput.addEventListener('input', function() {
   checkName();
 });
});
</script>
</body>
</html>
//1.php
<?php
if (isset($_POST['name'])) {
    $name = $_POST['name'];
    if (empty($name)) {
       echo 'Stranger, please tell me your name!';
    } elseif (in array($name, ['Rohit', 'Virat', 'Dhoni', 'Ashwin', 'Harbhajan'])) {
       echo 'Hello, master!';
    } else {
       echo "I don't know you!";
} else {
    echo 'Invalid request';
?>
```

#download nursery dataset from UCI. Build a linear regression model by identifying independent

#d target variable. Split the variables into training and testing sets and print them. Build a simple linear regression model for predicting purchases.

```
import numpy as np
import pandas as pd
from sklearn.model selection import train test split
from sklearn.linear model import LinearRegression
from sklearn.metrics import mean squared error
nursery data = pd.read csv("CSV/nursery.csv")
X = nursery data[['social']]
y = nursery data[['health']]
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
model = LinearRegression()
model.fit(X train, y train)
train rmse = np.sqrt(mean squared_error(y_train, model.predict(X_train)))
test rmse = np.sqrt(mean squared error(y test, model.predict(X test)))
print("Training RMSE:", train rmse)
print("Testing RMSE:", test rmse)
plt.scatter(X_test, y_test, color = 'green')
plt.plot(X train, model.predict(X train), color='red',linewidth=3)
plt.title('Regression(Height Weight)')
plt.xlabel('Height')
plt.ylabel('Weight')
plt.show()
```

```
</script>
<body>
    Enter teacher name Name<input type="text" name=tname id=tname>
    <input type="submit" value=submit>
    <span id="snamed"></span>
</body>
</html>
//php
<?php
$tname=$_GET['tname'];
$db = pg connect("host=localhost dbname= user= password= ");
$query = "select *from teacher where tname='$tname'";
$result=pg query($db,$query);
while($row=pg_fetch_array($result))
    echo $row['tno']."--".$row['tname']."--".$row['qualifications']."--".$row['salary']."<br>";
?>
#Create the following dataset in python & Convert the categorical values into numeric format. Apply the
apriori algorithm on the above dataset to generate the frequent itemsets and association rules. Repeat
the process with different min sup values.
import numpy as np
import pandas as pd
from mlxtend.frequent patterns import apriori, association rules
transactions = [['eggs','milk','bread'],['eggs','apple'],['milk','bread'],['apple', 'milk'],
['milk','apple','bread']]
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit(transactions).transform(transactions)
df=pd.DataFrame(te array, columns=te.columns)
df = df.astype(int)
df
freq items = apriori(df, min support = 0.5, use colnames = True)
print(freq_items)
rules = association rules(freq items, metric ='support', min threshold=0.05)
rules = rules.sort values(['support', 'confidence'], ascending =[False,False])
print(rules)
```

```
//Write Ajax program to fetch suggestions when is user is typing in a textbox. (eg like google
suggestions. Hint create array of suggestions and matching string will be displayed)
//html
<html>
<head>
    <script type="text/javascript">
        function m1(str) {
            var ob = false;
            ob = new XMLHttpRequest();
            ob.open("GET", "1.php?q=" + str);
            ob.send();
            ob.onreadystatechange = function () {
                if (ob.readyState == 4 && ob.status == 200) {
                    document.getElementById("a").innerHTML = ob.responseText;
    </script>
</head>
<body>
    <form>
        Search<input type=text name=search size="20" onkeyup="m1(form.search.value)">
        <input type=button value="submit" onclick="m1(form.search.value)">
    suggestions :<span id="a"></span><br>
</body>
</html>
//php
$a=array("pune", "satara", "nashik", "sangli", "mumbai", "murud", "akola", "dound", "dhule", "ratnagiri", "rajpur");
$q=$ GET['q'];
if(strlen($q)>0)
    $match="";
    for ($i=0;$i<count($a);$i++)
    if(strtolower(\$q) = = strtolower(substr(\$a[\$i], 0, strlen(\$q))))
        if ($match=="")
            $match=$a[$i];
        else
            $match=$match.",".$a[$i];
```

```
if($match=="")
    echo "No Suggestios";
else
   echo $match;
}
2>
#Create the following dataset in python & Convert the categorical values into numeric format.Apply the
apriori algorithm on the above dataset to generate the frequent itemsets and association rules. Repeat
the process with different min sup values
import numpy as np
import pandas as pd
from mlxtend.frequent patterns import apriori, association rules
transactions = [['eggs','milk','bread'],['eggs','apple'],['milk','bread'],['apple', 'milk'],
['milk','apple','bread']]
from mlxtend.preprocessing import TransactionEncoder
te=TransactionEncoder()
te array=te.fit(transactions).transform(transactions)
df=pd.DataFrame(te array, columns=te.columns)
df = df.astype(int)
df
freq items = apriori(df, min support = 0.5, use colnames = True)
print(freq items)
rules = association_rules(freq_items, metric ='support', min_threshold=0.05)
rules = rules.sort values(['support', 'confidence'], ascending =[False,False])
                                              Slip no 16
//Write Ajax program to get book details from XML file when user select a book name. Create XML file for
storing details of book(title, author, year, price).
//html
<html>
<body>
<select id="bookSelect" onchange="titles()">
   <option value="">Select a book</option>
</select>
<div id="bookDetails"></div>
```

<script>

```
function titles() {
    var title = document.getElementById("bookSelect").value;
    var xhttp = new XMLHttpRequest();
    xhttp.onreadystatechange = function() {
        if (this.readyState == 4 && this.status == 200) {
            document.getElementById("bookDetails").innerHTML = this.responseText;
    };
    xhttp.open("GET", "1.php?title=" + title, true);
    xhttp.send();
window.onload = function() {
   var xhttp = new XMLHttpRequest();
    xhttp.onreadystatechange = function() {
        if (this.readyState == 4 && this.status == 200) {
            document.getElementById("bookSelect").innerHTML = this.responseText;
    };
    xhttp.open("GET", "2.php", true);
    xhttp.send();
};
</script>
</body>
</html>
//1.php
<?php
if(isset($ GET['title'])) {
    $selectedTitle = $_GET['title'];
    $xml = simplexml load file('books.xml');
    $bookDetails = "";
    foreach($xml->children() as $book) {
        if($book->title == $selectedTitle) {
            $bookDetails .= "<strong>Title:</strong> " . $book->title . "";
            \begin{cases} bookDetails .= "<strong>Author:</strong> " . $book->author . "";
            $bookDetails .= "<strong>Year:</strong> " . $book->year . "";
            $bookDetails .= "<strong>Price:</strong> $" . $book->price . "";
    echo $bookDetails;
?>
//2.php
<?php
$xml = simplexml load file('books.xml');
$bookOptions = "<option value=''>Select a book</option>";
foreach($xml->children() as $book) {
    $title = $book->title;
    $bookOptions .= "<option value='$title'>$title</option>";
```

```
2>
#Consider any text paragraph. Preprocess the text to remove any special characters and digits. Generate
the summary using extractive summarization process
import re
from nltk.tokenize import sent tokenize
from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from sklearn.feature extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine similarity
text="Text summarization 09 is an NLP technique that extracts@ text , from a large amount of data .Its is
a process of identifying the most important meaningful information in a document."
def preprocess text(text):
   text = re.sub(r'[^a-zA-Z\s]', '', text)
   text = re.sub(r'\d+', '', text)
    return text.lower()
def tokenize sentences(text):
   return sent tokenize(text)
preprocessed text = preprocess text(text)
sentences = tokenize sentences(preprocessed text)
stop words = set(stopwords.words("english"))
stemmer = PorterStemmer()
def preprocess sentence(sentence):
   words = sentence.split()
   words = [stemmer.stem(word) for word in words if word not in stop words]
   return ' '.join(words)
preprocessed_sentences = [preprocess_sentence(sentence) for sentence in sentences]
vectorizer = TfidfVectorizer()
tfidf_matrix = vectorizer.fit_transform(preprocessed_sentences)
cosine sim matrix = cosine similarity(tfidf matrix, tfidf matrix)
sentence_scores = cosine_sim_matrix.sum(axis=1)
sorted indices = sentence scores.argsort()[::-1]
num sentences summary = 2
summary sentences = [sentences[idx] for idx in sorted indices[:num sentences summary]]
summary = ' '.join(summary_sentences)
print("Original Text:\n", text)
print("\nExtractive Summary:\n", summary)
```

echo \$bookOptions;

//Write a Java Script Program to show Hello Good Morning message onload event using alert box and display the Student registration form.

```
<html>
    <body onload="alert('Hello Good Morning')">
        <form>
           Name : <input type="text"><br>
            Class: <input type="text"><br>
            Roll no: <input type="text"><br>
            <input type="submit" value="SUBMIT">
        </form>
    </body>
</html>
#Consider text paragraph.So, keep working. Keep striving. Never give up. Fall down seven times, get up
eight. Ease is a greater threat to progress than hardship. Ease is a greater threat to progress than
hardship. So, keep moving, keep growing, keep learning. See you at work. Preprocess the text to remove any
special characters and digits. Generate the summary using extractive summarization process.
import re
from nltk.tokenize import sent tokenize
from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from sklearn.feature extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine similarity
text = "So, keep working. Keep striving. Never give up. Fall down seven times, get up eight. Ease is a
greater threat to progress than hardship. Ease is a greater threat to progress than hardship. So, keep
moving, keep growing, keep learning. See you at work."
def preprocess text(text):
    text = re.sub(r'[^a-zA-Z\s]', '', text)
   text = re.sub(r'\d+', '', text)
    return text.lower()
def tokenize sentences(text):
    return sent tokenize(text)
preprocessed text = preprocess text(text)
sentences = tokenize sentences(preprocessed text)
stop words = set(stopwords.words("english"))
stemmer = PorterStemmer()
def preprocess sentence(sentence):
    words = sentence.split()
```

words = [stemmer.stem(word) for word in words if word not in stop_words]

```
return ' '.join(words)

preprocessed_sentences = [preprocess_sentence(sentence) for sentence in sentences]
vectorizer = TfidfVectorizer()

tfidf_matrix = vectorizer.fit_transform(preprocessed_sentences)
cosine_sim_matrix = cosine_similarity(tfidf_matrix, tfidf_matrix)
sentence_scores = cosine_sim_matrix.sum(axis=1)
sorted_indices = sentence_scores.argsort()[::-1]
num_sentences_summary = 2
summary_sentences = [sentences[idx] for idx in sorted_indices[:num_sentences_summary]]
summary = ' '.join(summary_sentences)

print("Original Text:\n", text)
print("\nExtractive Summary:\n", summary)
```

```
//Write a Java Script Program to print Fibonacci numbers on onclick event.
<html>
<head>
   <title>Fibonacci Numbers</title>
    <script>
        function fibo() {
           var num = parseInt(prompt("Enter the number of Fibonacci numbers to generate: "));
           if (isNaN(num) || num <= 0) {
               alert("Please enter a valid positive number.");
               return;
           var fib = [];
            fib.push(0);
            fib.push(1);
            for (var i = 2; i < num; i++) {
                fib.push(fib[i - 1] + fib[i - 2]);
           document.getElementById("p1").innerHTML = "Fibonacci Numbers: " + fib.join(", ");
    </script>
</head>
<body>
    <button onclick="fibo()">Generate Fibonacci Numbers/button>
   </body>
</html>
```

#Consider any text paragraph. Remove the stopwords. Tokenize the paragraph to extract words and sentences. Calculate the word frequency distribution and plot the frequencies. Plot the wordcloud of the text.

```
import re
import matplotlib.pyplot as plt
from wordcloud import WordCloud
from nltk.tokenize import word tokenize, sent tokenize
from nltk.corpus import stopwords
from collections import Counter
text = """
Hello world this is 4 and Here to summarize text
stop words = set(stopwords.words('english'))
filtered\_text = ".join([word for word in re.findall(r'\b\w+\b', text.lower())) if word not in
stop words])
words = word_tokenize(filtered_text)
sentences = sent tokenize(text)
word freq = Counter(words)
plt.figure(figsize=(10, 6))
plt.bar(word freq.keys(), word freq.values())
plt.xlabel('Words')
plt.ylabel('Frequency')
plt.title('Word Frequency Distribution')
plt.xticks(rotation=45)
plt.show()
wordcloud = WordCloud(width=800, height=400, background color='white').generate(filtered text)
plt.figure(figsize=(10, 6))
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
plt.title('Wordcloud')
plt.show()
```

```
var password = document.getElementById("password").value;
            if (username.trim() === "") {
                alert("Please enter a username.");
                return false;
            if (password.trim() === "") {
                alert("Please enter a password.");
                return false;
            if (password.length < 6) {</pre>
                alert("Password must be at least 6 characters long.");
                return false;
            return true;
    </script>
</head>
<body>
    <h2>User Authentication</h2>
    <form onsubmit="return validateForm()">
        <label for="username">Username:</label><br>
        <input type="text" id="username" name="username"><br>
        <label for="password">Password:</label><br>
        <input type="password" id="password" name="password"><br><br>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
#Download the movie review.csv dataset from Kaggle by using the following link
:https://www.kagqle.com/nltkdata/movie-review/version/3?select=movie review.csv to perform sentiment
analysis on above dataset and create a wordcloud
import pandas as pd
import nltk
from nltk.corpus import stopwords
from nltk.tokenize import word tokenize
from nltk.stem import WordNetLemmatizer
from wordcloud import WordCloud
import matplotlib.pyplot as plt
nltk.download('wordnet')
df = pd.read csv('CSV/movie review.csv')
df
stop words = set(stopwords.words('english'))
lemmatizer = WordNetLemmatizer()
```

var username = document.getElementById("username").value;

```
def preprocess text(text):
   words = word tokenize(text)
    words = [word.lower() for word in words if word.isalpha()]
    words = [lemmatizer.lemmatize(word) for word in words if word not in stop words]
    return ' '.join(words)
df['clean text'] = df['text'].apply(preprocess text)
all text = ' '.join(df['clean text'])
wordcloud = WordCloud(width=800, height=400, background color='white').generate(all text)
plt.figure(figsize=(10, 6))
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
plt.title('Word Cloud of Movie Reviews')
plt.show()
                                              Slip no 20
//create a student.xml file containing at least 5 student information
<?xml version="1.0" encoding="UTF-8"?>
<Students>
    <Student>
       <name>s1</name>
        <rno>1</rno>
    </student>
</Students>
#Consider text paragraph."""Hello all, Welcome to Python Programming Academy. Python
#Programming Academy is a nice platform to learn new programming skills. It is difficult to get enrolled
in this Academy."""Remove the stopwords.
import nltk
from nltk.corpus import stopwords
from nltk.tokenize import word tokenize
text = """Hello all, Welcome to Python Programming Academy. Python Programming Academy is a nice platform
to learn new programming skills. It is difficult to get enrolled in this Academy."""
nltk.download('stopwords')
nltk.download('punkt')
words = word tokenize(text)
stop words = set(stopwords.words('english'))
filtered words = [word for word in words if word.lower() not in stop words]
filtered_text = ' '.join(filtered_words)
print("Original Text:\n", text)
print("\nText after removing stopwords:\n", filtered text)
```

```
//Add a JavaScript File in Codeigniter. The Javascript code should check whether a number is positive or
negative.
welcome message.php/
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
$this->load->helper('url');
?>
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Q1</title>
</head>
<body>
   <input type="text" id="input" />
   <button id="btn">check
<script src="<?php echo base url('public/js/new.js'); ?>">
</script>
</body>
</html>
public/
....js/
....new.js/
let button = document.getElementById("btn");
let input = document.getElementById("input");
let output = document.getElementById("output");
button.addEventListener("click", function () {
   let current = +input.value;
   if (current < 0) {
       output.innerText = "Negative";
   } else if (current > 0) {
       output.innerText = "Positive";
   } else {
       output.innerText = "Zero";
});
#Build a simple linear regression model for User Data.
```

from sklearn.model selection import train test split

```
from sklearn.linear model import LinearRegression
import pandas as pd
import matplotlib.pyplot as plt
df = pd.read csv('./csv/User Data.csv')
df = pd.get dummies(df, columns=['Gender'], drop first=True)
X = df[['EstimatedSalary']]
y = df['Purchased']
X train, X test, y train, y test = train test split(X, y, test size=0.25, random state=15)
model = LinearRegression()
model.fit(X train, y train)
plt.scatter(X test, y test, color = 'green')
plt.plot(X train, model.predict(X train), color='red',linewidth=3)
plt.title('Linear Regression')
plt.xlabel('Salary')
plt.ylabel('Purchases')
plt.show()
```

```
//Create a table student having attributes(rollno, name, class). Using codeigniter, connect to the
database and insert 5 recodes in it.
view/welcome message.php/
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
$this->load->helper('url');
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>02</title>
</head>
<body>
   <?php echo validation errors(); ?>
    <?php echo form open('welcome/add'); ?>
        <label>Rollno: </label>
        <input type="number" name="rollno">
        <label>Name: </label>
        <input type="text" name="name">
        <label>Class: </label>
        <input type="text" name="class">
```

```
<button>submit
    </form>
</body>
</html>
controller/Welcome.php
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
class Welcome extends CI Controller {
    public function __construct() {
       parent:: construct();
        $this->load->library('form validation');
       $this->load->model('Model');
        $this->load->helper('url');
    public function index() {
        $this->load->view('welcome message.php');
    public function add() {
        $this->form validation->set rules('rollno', 'Rollno', 'required');
        $this->form validation->set rules('name', 'Name', 'required');
        $this->form validation->set rules('class', 'Class', 'required');
        if ($this->form validation->run() == FALSE) {
            $this->load->view('welcome message');
        } else {
            $data['rollno'] = $this->input->post('rollno');
            $data['name'] = $this->input->post('name');
            $data['class'] = $this->input->post('class');
            $this->Model->save_form_data($data);
            redirect('welcome');
models/Model.php
defined('BASEPATH') OR exit('No direct script access allowed');
class Model extends CI Model {
    public function save form data($data) {
       $this->db->insert('student', $data);
config/autoload.php
$autoload['libraries'] = array('database');
```

#Consider any text paragraph. Remove the stopwords.

```
from nltk.corpus import stopwords
from nltk.tokenize import word tokenize
text = """Hello all, Welcome to Python Programming Academy. Hello all, Welcome to Python Programming
Academy. Hello all, Welcome to Python Programming Academy. Hello all, Welcome to Python Programming
Academy. Hello all, Welcome to Python Programming Academy. Hello all, Welcome to Python Programming
Academy. Python Programming Academy is a nice platform to learn new programming skills. It is difficult
to get enrolled in this Academy."""
nltk.download('stopwords')
nltk.download('punkt')
words = word tokenize(text)
stop words = set(stopwords.words('english'))
filtered words = [word for word in words if word.lower() not in stop words]
filtered_text = ' '.join(filtered_words)
print("Original Text:\n", text)
print("\nText after removing stopwords:\n", filtered text)
                                              Slip no 23
//Create a table student having attributes(rollno, name, class) containing atleast 5 recodes. Using
codeigniter, display all its records.
views/welcome message.php
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
$this->load->helper('url');
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>02</title>
</head>
<body>
   <?php echo validation errors(); ?>
    <?php echo form open('welcome/add'); ?>
        <label>Rollno: </label>
        <input type="number" name="rollno">
        <label>Name: </label>
        <input type="text" name="name">
        <label>Class: </label>
        <input type="text" name="class">
```

import nltk

```
<button>submit
   </form>
   <br>
   <?php echo form open('welcome/show'); ?>
       <button>view data</putton>
   </form>
</body>
</html>
views/data view.php
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="utf-8">
   <title>Uploaded Data</title>
</head>
<body>
<h2>Data</h2>
<?php if (empty($records)): ?>
   No data available.
<?php else: ?>
   RollNameClass
       <?php foreach ($records as $record): ?>
           <?php echo $record['rollno']; ?>
              <?php echo $record['name']; ?>
              <?php echo $record['class']; ?>
           <?php endforeach; ?>
   <?php endif; ?>
</body>
</html>
controllers/Welcom.php
defined('BASEPATH') OR exit('No direct script access allowed');
class Welcome extends CI Controller {
public function construct() {
       parent::__construct();
       $this->load->library('form validation');
       $this->load->model('Model');
       $this->load->helper('url');
   public function index() {
       $this->load->view('welcome message.php');
public function add() {
       $this->form validation->set rules('rollno', 'Rollno', 'required');
       $this->form validation->set rules('name', 'Name', 'required');
       $this->form validation->set rules('class', 'Class', 'required');
```

```
if ($this->form validation->run() == FALSE) {
            $this->load->view('welcome message');
        } else {
            $data['rollno'] = $this->input->post('rollno');
            $data['name'] = $this->input->post('name');
            $data['class'] = $this->input->post('class');
            $this->Model->save form data($data);
            redirect('welcome');
    public function show() {
        $data['records'] = $this->Model->get uploaded data();
        $this->load->view('data view', $data);
models/Model.php
defined('BASEPATH') OR exit('No direct script access allowed');
class Model extends CI Model {
   public function save form data($data) {
        $this->db->insert('student', $data);
    public function get uploaded data() {
        $query = $this->db->get('student');
        return $query->result array();
#Consider any text paragraph. Preprocess the text to remove any special characters and digits.
import re
text="hello 1234 this is @"
def preprocess_text(text):
   text = re.sub(r'[^a-zA-Z\s]', '', text)
   text = re.sub(r'\d+', '', text)
    return text.lower()
preprocessed text = preprocess text(text)
print("Original Text:\n", text)
print("\nAfter processing text:\n", preprocessed text)
```

//Write a PHP script to create student.xml file which contains student roll no, name, address, college and course. Print students detail of specific course in tabular format after accepting course as input.

```
<?php
$course = $ GET['course'];
$xml = simplexml load file('student.xml');
if ($xml) {
   $students = array();
   foreach ($xml->student as $student) {
       $studentDetails = array(
          'roll no' => (string)$student->roll no,
          'name' => (string)$student->name,
          'address' => (string)$student->address,
          'college' => (string)$student->college,
          'course' => (string)$student->course
       );
       $students[] = $studentDetails;
   function printStudents($students) {
       echo "
              Roll No
                 Name
                 Address
                 College
                 Course
              ";
       foreach ($students as $student) {
          echo "
                 {$student['roll_no']}
                 {$student['name']}
                 {$student['address']}
                 {$student['college']}
                 {$student['course']}
               ";
      echo "";
   function filterStudentsByCourse($students, $course) {
       $filteredStudents = array();
       foreach ($students as $student) {
          if ($student['course'] == $course) {
              $filteredStudents[] = $student;
       return $filteredStudents;
```

```
if (!empty($course)) {
        $filteredStudents = filterStudentsByCourse($students, $course);
        if (!empty($filteredStudents)) {
            echo "<h2>Students in $course</h2>";
           printStudents($filteredStudents);
        } else {
           echo "No students found in $course.";
} else {
   echo "Failed to load student.xml file.";
?>
#Consider the following dataset : https://www.kaggle.com/datasets/datasnaek/youtube-new?
select=INvideos.csv Write a Python script for the following : i. Read the dataset and perform data
cleaning operations on it. ii. Find the total views, total likes, total dislikes and comment count.
import pandas as pd
import matplotlib.pyplot as plt
import pandas as pd
import matplotlib.pyplot as plt
data = pd.read csv("CSV/INvideos.csv")
data.dropna(inplace=True)
total views = data['views'].sum()
total likes = data['likes'].sum()
total dislikes = data['dislikes'].sum()
total comments = data['comment count'].sum()
print("Total Views:", total views)
print("Total Likes:", total likes)
print("Total Dislikes:", total dislikes)
print("Total Comments:", total comments)
least liked video = data.loc[data['likes'].idxmin()]
top liked video = data.loc[data['likes'].idxmax()]
least commented video = data.loc[data['comment count'].idxmin()]
top commented video = data.loc[data['comment count'].idxmax()]
```

Write a script to create "cricket.xml" file with multiple elements as shown below: Write a script to add multiple elements in "cricket.xml" file of category, country="India".

```
<?php
function createCricketXML() {</pre>
```

```
$doc = new DOMDocument();
    $cricketTeam = $doc->createElement('CricketTeam');
    $doc->appendChild($cricketTeam);
    $teamAustralia = $doc->createElement('Team');
    $teamAustralia->setAttribute('country', 'Australia');
    $cricketTeam->appendChild($teamAustralia);
    $playerAustralia = $doc->createElement('player', 'Player Aus');
    $teamAustralia->appendChild($playerAustralia);
    $runsAustralia = $doc->createElement('runs', '100');
    $teamAustralia->appendChild($runsAustralia);
    $wicketsAustralia = $doc->createElement('wicket', '5');
    $teamAustralia->appendChild($wicketsAustralia);
    $doc->formatOutput = true;
    $doc->save('cricket.xml');
function addElementsForIndia() {
    $doc = new DOMDocument();
    $doc->load('cricket.xml');
    $cricketTeam = $doc->documentElement;
    $teamIndia = $doc->createElement('Team');
    $teamIndia->setAttribute('country', 'India');
    $cricketTeam->appendChild($teamIndia);
    $players = array('Player1', 'Player2', 'Player3');
    \frac{1}{2} $runs = array(50, 60, 70);
    wickets = array(2, 3, 1);
    foreach ($players as $key => $player) {
        $playerIndia = $doc->createElement('player', $player);
        $teamIndia->appendChild($playerIndia);
        $runsIndia = $doc->createElement('runs', $runs[$key]);
        $teamIndia->appendChild($runsIndia);
        $wicketsIndia = $doc->createElement('wicket', $wickets[$key]);
        $teamIndia->appendChild($wicketsIndia);
    $doc->formatOutput = true;
    $doc->save('cricket.xml');
if (!file exists('cricket.xml')) {
    createCricketXML();
addElementsForIndia();
echo "Elements added successfully to cricket.xml";
?>
```

#Consider the following dataset: https://www.kaggle.com/datasets/seungguini/youtube-comments-#for-covid19-relatedvideos?select=covid_2021_1.csv Write a Python script for the following: i. Read the dataset and perform data cleaning operations on it. ii. Tokenize the comments in words. iii. Perform sentiment analysis and find the percentage of positive, negative and neutral comments..

```
import pandas as pd
import re
from textblob import TextBlob
data=pd.read csv('CSV/covid 2021 1.csv')
data=data.dropna(subset=['comment text'])
data['clean comment']=data['comment text'].apply(lambda x:re.sub(r'\s+','',str(x)))
data['tokenized_comment']=data['clean_comment'].apply(lambda x:x.split())
positive comments=0
negative_comments=0
neutral comments=0
for comment in data['clean comment']:
  analysis=TextBlob(comment)
  if analysis.sentiment.polarity > 0:
    positive comments+=1
  elif analysis.sentiment.polarity <0:</pre>
    negative comments+=1
  else:
    neutral comments+=1
total comments=len(data)
ps per=(positive comments/total comments)*100
neg per=(negative comments/total comments) *100
neut per=(positive comments/total comments)*100
print("percentage of positive comment: ", format(ps per))
print("percentage of negative comment: ", format(neg per))
print("percentage of neutral comment: ", format(neut per))
```