Slip no 1

// Write a PHP script to keep track of number of times the web page has been accessed (Use Session Tracking).

```php
<?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.

```python
import pandas as pd
import numpy as np
```

```python
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()
```

Slip no 2

//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>
<b>Enter font color:</b><input type=text name=c><br>
<b>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);
```

```php
    setcookie("set3",$_GET['b'],time()+3600);

    setcookie("set4",$_GET['s'],time()+3600);
?>
<a href="2.php"><br><br>Show</a>
```

```php
//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>";

?>
```

//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 regression model for predicting purchases.

```python
import numpy as np

import pandas as pd

from sklearn.model_selection import train_test_split
```

```python
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)
```

```python
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()
```

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]

```php
//php1
<?php

session_start();

$correctUsername = "admin";

$correctPassword = "admin";


if (!isset($_SESSION['login_attempts']))

{

    $_SESSION['login_attempts'] = 0;

}


if ($_SERVER['REQUEST_METHOD'] === 'POST')
```

```php
{

    $_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>
```

```php
    <input type="submit" value="Login">
</form>


<?php if ($_SESSION['login_attempts'] > 0 && $_SESSION['login_attempts'] < 3): ?>

    <p>Remaining login attempts: <?php echo 3 - $_SESSION['login_attempts']; ?></p>

<?php endif; ?>
```

//php2

```php
<?php

echo "Welcome to my web page!";

?>
```

#Create 'User' Data set having 5 columns namely: User ID, Gender, Age, Estimated Salary and Purchased. Build a logistic regression model that can predict whether on the given parameter a person will buy a car or not.

```python
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)
```

```python
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 = 42
salary = 149000

result = predict_purchase(gender, age, salary, model)
print(result)
```

Slip no 4

//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>
<table>
<tr>
<td><br>Emp no</b></td>
<td><input type=text name=eno></td>
</tr>
<tr>
<td><b>Name</b></td>
<td><input type=text name=enm></td>
</tr>
<tr>
<td><b>Address</b></td>
<td><input type=text name=eadd></td>
```

```
</tr>

</table>

<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>

<table>
```

```html
<tr>

<td>Basic:</td>

<td><input type="text" name="e1"></td></tr>

<tr>

<td>DA:</td>

<td><input type="text" name="e2"></td></tr>

<tr>

<td>HRA:</td>

<td><input type="text" name="e3"></td></tr>

<tr><td></td><td><input type=submit value=Next></td></tr>

</table>

</center>

</form>

</body>

</html>
```

//php2

```php
<?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>";
```

```php
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.

```python
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)
```

```python
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()
```

Slip no 5

//Create XML file named "Item.xml"with item-name, item-rate, item quantity Store the details of 5 Items of different Types

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

<ItemDetails>

<Item>

<ItemName>Shoes</ItemName>

<ItemPrice>1000</ItemPrice>

<Quantity>3</Quantity>

</Item>
```

<Item>

<ItemName>Jeans</ItemName>

<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

```python
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()
```

Slip no 6

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

//xml

```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</year>
</book>
</BookInfo>
```

//php1

```php
<?php
$xml=simplexml_load_file("book.xml");
foreach($xml->book as $bk)
{
```

```php
    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.

```python
import numpy as np

import pandas as pd

from mlxtend.frequent_patterns import apriori, association_rules


transactions = [['Bread', 'Milk'],
['Bread','Diaper','Beer','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
```

```python
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 7

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

<MovieInfo>

<Movie>

<Movieno>1</Movieno>

<Movietitle>war</Movietitle>

<Actorname>Hritik Roshan</Actorname>

<year>2019</year>

</Movie>

<Movie>

<Movieno>2</Movieno>

<Movietitle>Pathan</Movietitle>

<Actorname>Sharukh Khan</Actorname>

<year>2023</year>
```

</Movie>

</MovieInfo>

//php1

```php
<?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><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

```python
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')

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 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
<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.

```python
import pandas as pd

from mlxtend.frequent_patterns import apriori,association_rules

df=pd.read_csv('CSV/groceries.csv')

df=df.sample(50)

df
```

```python
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
```

```python
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
```

```python
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) {
         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.

```python
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)

df


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 after( )]

```html
<html>
   <body>
      <p> This is some text. </p>
      <script src="jquery-3.7.1.min.js"></script>
      <script>
         $("p").before("<input type='text' />");
         $("p").after("<input type='text'  />");
      </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 association rules. Repeat the process with different min_sup values.

```python
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']]
```

```python
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
<html>
<body>


  <label for="studentName">Enter Student Name:</label>

  <input type="text" id="studentName" onblur="changeStyle()"
onmouseover="displayImage()" onmouseout="hideImage()" onclick="changeImageSize()"
onmouseup="hideImage()">
```

```html
<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');
    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.

```python
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])

Slip no 12

//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 "<table border=1>";

  echo "<tr><th>Sr. No.</th><th>Name</th><th>Residence No.</th><th>Mob.
no.</th><th>Address</th></tr>";


  while($row =  fscanf($fp,"%s %s %s %s %s"))

  {

    echo "<tr>";

    foreach($row as $r)

    {

      echo "<td>$r</td>";

    }
```

```php
        echo "</tr>";
    }
    echo "</table>";
    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.

```python
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']
```

```python
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>

```html
<label for="nameInput">Enter your name:</label>
<input type="text" id="nameInput">
<p id="response">Stranger, please tell me your name!</p>
<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.

```python
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()

Slip no 14

//Create TEACHER table as follows TEACHER(tno, tname, qualification, salary). Write Ajax program to select a teachers name and print the selected teachers details

//html

```
<html>
<script>
   function dis() {
      var ob = false;
      ob = new XMLHttpRequest();
      var name = document.getElementById("tname").value;
      ob.open("GET", "1.php?tname=" + name);
      ob.send();
      ob.onreadystatechange = function () {
         if (ob.readyState == 4 && ob.status == 200) {
            document.getElementById("snamed").innerHTML = ob.responseText;
         }
      }
   }
</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']]
```

```python
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)
```


Slip no 15

//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
<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)">

    </form>

    suggestions :<span id="a"></span><br>


  </body>
</html>


//php
<?php
$a=array("pune","satara","nashik","sangli","mumbai","murud","akola","dound","dhule","rat
nagiri","rajpur");

$q=$_GET['q'];
```

```php
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;
}
?>
```

#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

```python
import numpy as np

import pandas as pd
```

```python
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>

```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 .= "<p><strong>Title:</strong> " . $book->title . "</p>";

            $bookDetails .= "<p><strong>Author:</strong> " . $book->author . "</p>";

            $bookDetails .= "<p><strong>Year:</strong> " . $book->year . "</p>";

            $bookDetails .= "<p><strong>Price:</strong> $" . $book->price . "</p>";

        }

    }

    echo $bookDetails;

}

?>


//2.php

<?php

$xml = simplexml_load_file('books.xml');

$bookOptions = "<option value=''>Select a book</option>";
```

```php
foreach($xml->children() as $book) {

    $title = $book->title;

    $bookOptions .= "<option value='$title'>$title</option>";

}

echo $bookOptions;

?>
```

```python
#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)
```

```python
    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)
```

Slip no 17

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

```html
<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.

```python
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
```

```python
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)
```

```python
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)
```

Slip no 18


```html
//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>

  <p id="p1"></p>

</body>

</html>
```

```python
#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

"""


```python
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()
```

Slip no 19

//Write a Java Script Program to validate user name and password on onSubmit event

```html
<html>
<head>
  <title>User Authentication</title>
  <script>
    function validateForm() {
      var username = document.getElementById("username").value;
      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) {
        alert("Password must be at least 6 characters long.");
        return false;
      }
      return true;
    }
```

```html
    </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.kaggle.com/nltkdata/movie-review/version/3?select=movie_review.csv to perform sentiment analysis on above dataset and create a wordcloud

```python
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')
```

```python
df = pd.read_csv('CSV/movie_review.csv')

df


stop_words = set(stopwords.words('english'))

lemmatizer = WordNetLemmatizer()


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
<?xml version="1.0" encoding="UTF-8"?>
<Students>
   <Student>
      <name>s1</name>
      <rno>1</rno>
   </student>
</Students>
```

```python
#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)

Slip no 21

//Add a JavaScript File in Codeigniter. The Javascript code should check whether a number is positive or negative.

welcome_message.php/

```php
<?php

defined('BASEPATH') OR exit('No direct script access allowed');

$this->load->helper('url');

?>
```

```html
<!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" />
  <p id="output"></p>
```

```html
    <button id="btn">check</button>
<script src="<?php echo base_url('public/js/new.js'); ?>">
</script>
</body>
</html>
```

public/

....js/

........new.js/

```javascript
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";
    }
});
```

```python
#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()
```

Slip no 22

//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
<?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>Q2</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</button>
    </form>
</body>
</html>
```

controller/Welcome.php

```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');
        }
    }
```

```php
}


models/Model.php

<?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');
```

```python
#Consider any text paragraph. Remove the stopwords.


import nltk

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."""
```

```python
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
<?php

defined('BASEPATH') OR exit('No direct script access allowed');

$this->load->helper('url');

?>


<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">
```

```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q2</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</button>
    </form>
    <br>
    <?php echo form_open('welcome/show'); ?>
        <button>view data</button>
    </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)): ?>

    <p>No data available.</p>

<?php else: ?>

    <table border="1">

        <tr><th>Roll</th><th>Name</th><th>Class</th></tr>

        <?php foreach ($records as $record): ?>

            <tr>

                <td><?php echo $record['rollno']; ?></td>

                <td><?php echo $record['name']; ?></td>

                <td><?php echo $record['class']; ?></td>

            </tr>

        <?php endforeach; ?>

    </table>

<?php endif; ?>

</body>

</html>
```

controllers/Welcom.php

```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');
```

```php
        $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

<?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)

Slip no 24

//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
<?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) {
```

```php
    echo "<table border='1'>
        <tr>
            <th>Roll No</th>
            <th>Name</th>
            <th>Address</th>
            <th>College</th>
            <th>Course</th>
        </tr>";

    foreach ($students as $student) {
        echo "<tr>
            <td>{$student['roll_no']}</td>
            <td>{$student['name']}</td>
            <td>{$student['address']}</td>
            <td>{$student['college']}</td>
            <td>{$student['course']}</td>
        </tr>";
    }
    echo "</table>";
}

function filterStudentsByCourse($students, $course) {
    $filteredStudents = array();
    foreach ($students as $student) {
        if ($student['course'] == $course) {
            $filteredStudents[] = $student;
        }
    }
```

```php
        return $filteredStudents;

    }


    if (!empty($course)) {

        $filteredStudents = filterStudentsByCourse($students, $course);

        if (!empty($filteredStudents)) {

            echo "<h2>Students in $course</h2>";

            printStudents($filteredStudents);

        } else {

            echo "<p>No students found in $course.</p>";

        }

    }

} 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.

```python
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()]
```

Slip no 25

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
<?php
function createCricketXML() {
    $doc = new DOMDocument();
```

```php
    $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');

    $runs = array(50, 60, 70);

    $wickets = array(2, 3, 1);

    foreach ($players as $key => $player) {

        $playerIndia = $doc->createElement('player', $player);

        $teamIndia->appendChild($playerIndia);
```

```php
        $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..

```python
import pandas as pd

import re

from textblob import TextBlob

data=pd.read_csv('CSV/covid_2021_1.csv')
```

```python
data=data.dropna(subset=['comment_text'])

data['clean_comment']=data['comment_text'].apply(lambda x:re.sub(r'[^a-zA-Z\s]', '', str(x)))

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:

        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))
```