

## Slip no 1

// 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_train, 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);
    setcookie("set3", $_GET['b'], time()+3600);
    setcookie("set4", $_GET['s'], time()+3600);
?>
<a href="2.php"><br><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>";
?>
```

```
//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.
```

```
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()
```

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

//php2
<?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.

```
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 = 42
salary = 149000

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

```
//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>
```

```

<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
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()

```

## 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 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>
<Item>
<ItemName>Phone</ItemName>
<ItemPrice>20000</ItemPrice>
<Quantity>1</Quantity>
</Item>
<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()
```

## 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 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
$xml=simplexml_load_file("book.xml");
foreach($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','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

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</year>
</Movie>
<Movie>
<Movieno>2</Movieno>
<Movietitle>Pathan</Movietitle>
<Actorname>Sharukh Khan</Actorname>
<year>2023</year>
</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><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')
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>
<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) {
            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)
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 file to insert text before and after a Paragraph using jQuery. [Hint : Use before( ) and after( )]

```

<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.

```

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

```

## 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, onmouseover, onmouseleave, onmouseleave, onmouseleave)

```

<html>
<body>

<label for="studentName">Enter Student Name:</label>
<input type="text" id="studentName" onblur="changeStyle()" onmouseover="displayImage()"
onmouseout="hideImage()" onclick="changeImageSize()" onmouseleave="hideImage()">

<div id="outputImage">
  
</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.

```

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>";
        }
        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.

```
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">
```

```

<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.
```

```
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
$name=$_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)

```

## 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>
```

```
<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","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;
}
?>

```

#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 .= "<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');
$bookOptions = "<option value=''>Select a book</option>";
foreach($xml->children() as $book) {
    $title = $book->title;
    $bookOptions .= "<option value='$title'>$title</option>";
}

```



```
echo $bookOptions;
?>
```

#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)
```

## 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>
  <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)

```

## Slip no 18

//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>

```

#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()
```

## Slip no 19

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

```
<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;
    }
</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](https://www.kaggle.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()

```

```

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)

```

## 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  
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" />  
    <p id="output"></p>  
    <button id="btn">check</button>  
<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()

```

## 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
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
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');
    }
    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

```
<?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.

```

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."""

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>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
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

```

<?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 "<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;
            }
        }
        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/datasnaek/youtube-new?](https://www.kaggle.com/datasnaek/youtube-new?select=INvideos.csv)

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()]

```

## 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
function createCricketXML() {

```

```

$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');
    $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](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'^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))
```