**9. Write a PHP program named states.py that declares a variable states with value “Mississippi Alabama Texas Massachusetts Kansas”. write a PHP program that does the following:**

**a. Search for a word in variable states that ends in xas. Store this word in element 0 of a list named statesList.**

**b. Search for a word in states that begins with k and ends in s. Perform a case-insensitive comparison. [Note: Passing re.Ias a second parameter to method compile performs a case-insensitive comparison.] Store this word in element1 of statesList.**

**c. Search for a word in states that begins with M and ends in s. Store this word in element 2 of the list.**

**d. Search for a word in states that ends in a. Store this word in element 3 of the list.**

**Program:**

Lab9.php

<html>

<head>

<title>Pattern Matching using python</title>

<style>

p {

color:black;

}

.para{

margin-left: 180px;

margin-right: auto;

margin-top: 80px;

font-size: 20px;

}

h2{

text-align: center;

margin-top: 15px;

}

li{

padding: 5px;

}

</style>

</head>

<body>

<h2>Lab 9</h2>

<div class="para">

<?php

$res=shell\_exec("python PythonServer/states.py");

$states=explode("\n",$res);

echo "<p>Statement is : <b>$states[4]</b></p>";

echo "<ol type='a'><li>Word that end with xas : <b>$states[0]</b></li>";

echo "<li>Word that Starts with k and end with s (Case Insensitive): <b>$states[1]</b></li>";

echo "<li>Word that Starts with M and end with s : <b>$states[2]</b></li>";

echo "<li>Word that end with a : <b>$states[3]</b></li></ol>";

?>

</div>

</body>

</html>

States.py

import re

states="Mississippi Alabama Texas Massachusetts Kansas"

statesArr=states.split()

statesList=list()

for val in statesArr:

if(re.search('xas$',val)):

statesList.append(val)

for val in statesArr:

if(re.search('^k.\*s$',val,re.I)):

statesList.append(val)

for val in statesArr:

if(re.search('^M.\*s$',val)):

statesList.append(val)

for val in statesArr:

if(re.search('a$',val)):

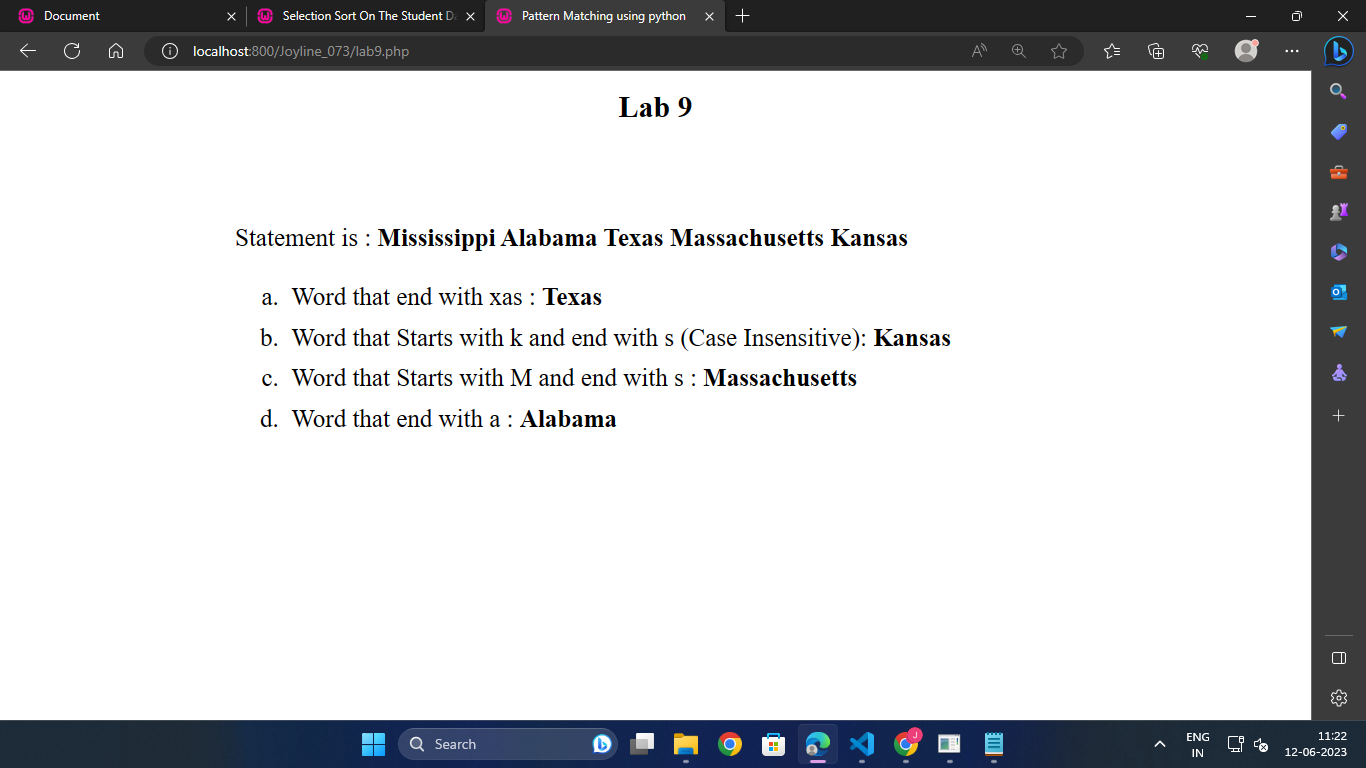
statesList.append(val)

for val in statesList:

print(val)

print(states)

**Output:**

****