Slip 16: HTML Program - PHP Marks Calculation

```
<html>
<body>
  <form action="slip16.php" method="POST">
    Subject 1 Marks: <input type="text" name="sub1"><br>
    Subject 2 Marks: <input type="text" name="sub2"><br>
    Subject 3 Marks: <input type="text" name="sub3"><br>
    Subject 4 Marks: <input type="text" name="sub4"><br>
    Subject 5 Marks: <input type="text" name="sub5"><br>
    <input type="submit" value="Calculate">
  </form>
</body>
</html>
```

PHP File (slip16.php)

```
<?php
$sub1 = $_POST['sub1'];
$sub2 = $_POST['sub2'];
$sub3 = $_POST['sub3'];
$sub4 = $_POST['sub4'];
$sub5 = $_POST['sub5'];

$total = $sub1 + $sub2 + $sub3 + $sub4 + $sub5;
$percentage = ($total / 500) * 100;

if ($percentage >= 90) $grade = 'A';
elseif ($percentage >= 80) $grade = 'B';
elseif ($percentage >= 70) $grade = 'C';
else $grade = 'D';

echo "<table border='1'>
        <tr><th>Total Marks</th><th>Percentage</th><th>Grade</th></tr>
        <tr><td>$total</td><td>$percentage%</td><td>$grade</td></tr>
      </table>";
?>
```

Slip 16: Python Program - Data Rescaling using MinMaxScaler

```
import pandas as pd
from sklearn.preprocessing import MinMaxScaler

df = pd.read_csv('winequality-red.csv')
scaler = MinMaxScaler()
scaled_data = scaler.fit_transform(df)

print(pd.DataFrame(scaled_data, columns=df.columns))
```

Slip 16: Python Program - Dataframe for Students

```
import pandas as pd

data = {
```

```
    'name': ['John', 'Jane', 'Jake', 'Jill', 'Josh'],
    'graduation_percentage': [85, 90, 75, 88, 92],
    'age': [21, 22, 23, 21, 22]
}

df = pd.DataFrame(data)

print('Average Age:', df['age'].mean())
print('Average Graduation Percentage:', df['graduation_percentage'].mean())
```