

## Slip 23: HTML Program - PHP Stack Operations

```
<html>
<body>
  <form action="slip23.php" method="POST">
    <input type="radio" name="op" value="insert"> Insert Element<br>
    <input type="radio" name="op" value="delete"> Delete Element<br>
    <input type="radio" name="op" value="display"> Display Stack<br>
    <input type="submit" value="Perform Operation">
  </form>
</body>
</html>
```

### PHP File (slip23.php)

```
<?php
session_start();
if (!isset($_SESSION['stack'])) {
    $_SESSION['stack'] = [];
}

$op = $_POST['op'];

switch ($op) {
    case 'insert':
        array_push($_SESSION['stack'], rand(1, 100));
        echo "Element inserted.";
        break;
    case 'delete':
        if (!empty($_SESSION['stack'])) {
            array_pop($_SESSION['stack']);
            echo "Element deleted.";
        } else {
            echo "Stack is empty.";
        }
        break;
    case 'display':
        if (!empty($_SESSION['stack'])) {
            echo "Stack: " . implode(", ", $_SESSION['stack']);
        } else {
            echo "Stack is empty.";
        }
        break;
}
?>
```

## Slip 23: Python Program - Data Binarization

```
import pandas as pd
from sklearn.preprocessing import Binarizer
df = pd.read_csv('winequality-red.csv')
binarizer = Binarizer(threshold=5)
binarized_data = binarizer.fit_transform(df)
print(pd.DataFrame(binarized_data, columns=df.columns))
```