

## Creating a PHP Slot Game

**Objective:** Develop a simple slot game using PHP that incorporates arrays, the `match()` expression, loops, and logical conditions.

Create a `slot_game.php` (there is no html in this lab)

### 1. Initialize Game Variables:

- Create an array with the symbols ``A``, ``B``, and ``C``.

### 2. \*\*Run the Game Loop\*\*:

- Use a `while` loop to perform spins until the total winnings reach 500 dollars or you have completed 20 spins.

#### **\*\*Generate Each Spin\*\*:**

- Inside the loop, using a `for` loop generate a spin by randomly selecting three symbols from the array above. *see page 218 for `array_rand()`*
- Concatenate these symbols to form a string that represents the spin (i.e. 'ABB').

#### **\*\*Determine Payoff\*\*:**

- Use a `match` expression to determine the payout based on the spin result.
- Possible Combinations for Payouts:

**Three Identical Symbols:** Payout **100 credits**

- AAA, BBB, CCC

**Two Identical Symbols and One Different:** Payout **50 credits**

- AAB, ABA, BAA
- ABB, BBA, BAB
- BCC, CBC, CCB
- ACC, CAC, CCA

**Any Other Combination:** Payout **0 credits**

```
// Combinations with three identical symbols
'AAA', 'BBB', 'CCC' => 100,
```

#### **\*\*Update Results and Track Spins\*\*:**

- Add the determined payout to the total winnings.
- Create a string from the spin holds the spin and its corresponding payoff in the array.

Example: "ACC Payoff 50"

### 3. \*\*Output Results\*\*:

- After exiting the loop, use a `foreach` to display each element in the array that is holding each spin.
- Display the total winnings at the end of the game.

Possible output:

ACC payoff 50

BAC payoff 0

CAA payoff 0

CAC payoff 50

BAA payoff 50

ACA payoff 0

AAB payoff 50

CAB payoff 0

BCA payoff 0

ACB payoff 0

CCC payoff 100

BCC payoff 50

BBB payoff 100

ACC payoff 50

Game over. Total winnings: 500 dollars