LECTURE #5 PHP
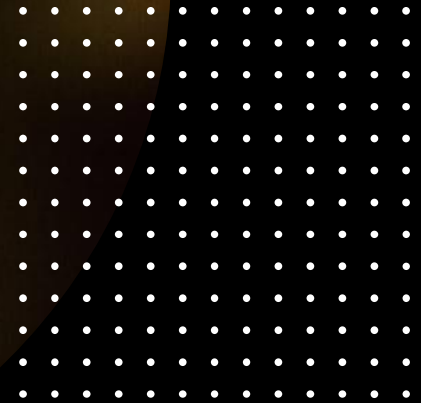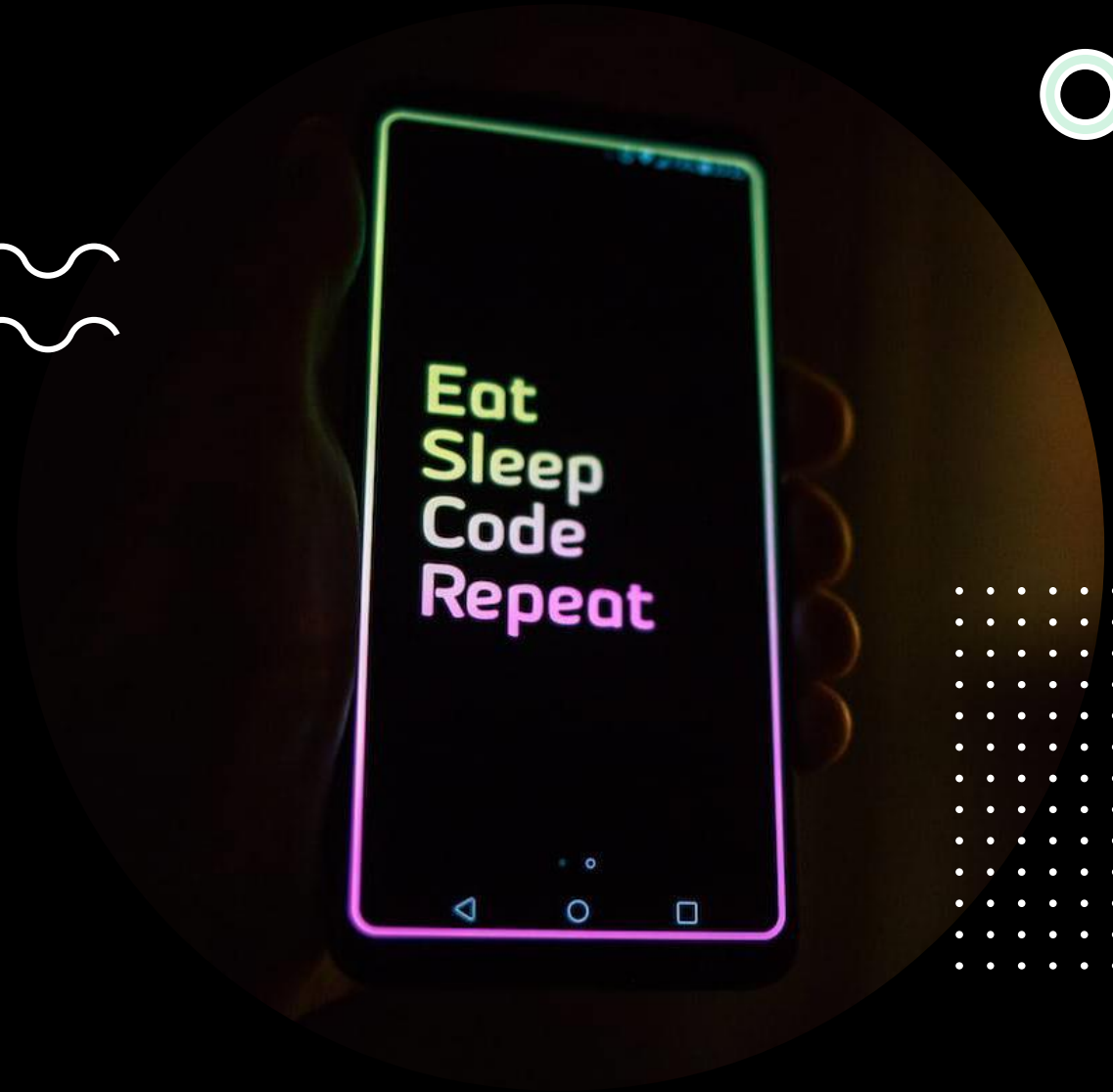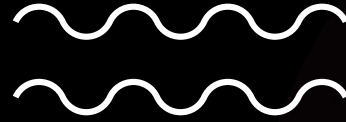
SERVER-SIDE PROGRAMMING LANGUAGE

Basic Functions

```php
function greet($name) {
    return "Hello, $name!";
}


echo greet("John");      // Output: Hello, John!
```

Advanced Functions

```
function addNumbers($a, $b = 0) {
    return $a + $b;
}


echo addNumbers(5);          // Output: 5
echo addNumbers(5, 3);       // Output: 8
```

Anonymous Functions

```
$multiply = function ($a, $b) {
    return $a * $b;
};


echo $multiply(4, 5) ;          // Output: 20
```

In Anonymous Function Use Case "Callbacks"

```php
$numbers = [1, 2, 3, 4, 5];

// Using array_map with an anonymous function

$squared  =  array_map (
function ($number) { return $number * $number ; }
, $numbers
);

print_r($squared);

 // Output: Array ( [0] => 1 [1] => 4 [2] => 9 [3] => 16 [4] => 25 )
```

Arrow Functions

```
$add = fn($a, $b) => $a + $b;
echo $add(3, 4); // Output: 7
```

String Functions

```php
$string = "Hello, World!";
echo strlen($string);          // Output: 13
echo strtoupper($string);         // Output: HELLO, WORLD!

$phrase = "      Trim me      ";
$trimmedPhrase = trim($phrase);     // Output: 'Trim me'

$replacedPhrase = str_replace("me", "you", $phrase);

//Output : Trim you
```

Array Functions

- $fruits = ['apple', 'banana', 'orange'];

- // Add an element to the end of the array
- array_push($fruits, 'grape');

- // Remove the last element from the array
- $lastFruit = array_pop($fruits);

- // Check if an element exists in the array
- $hasBanana = in_array('banana', $fruits);

- // Example usage
- echo "Fruits: " . implode(', ', $fruits) . ". Removed: '$lastFruit'. Has banana: " . ($hasBanana ? 'Yes' : 'No');
- // Output: Fruits: apple, banana, orange, grape. Removed: 'grape'. Has banana: Yes