

ASSIGNMENT-1

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Class :- BCA 1ST YEAR

Roll no : 25

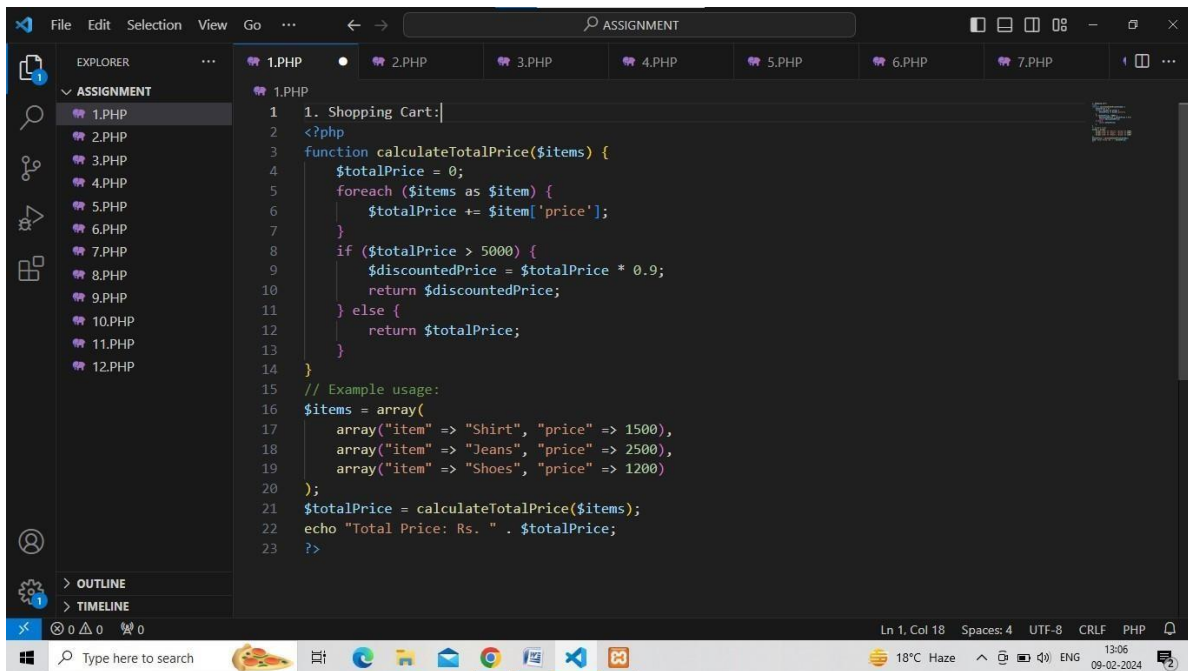
Subject :- WEB TECHNOLOGY II

Section :- H

University no : 2342010473

Q1. Create a program for a shopping cart. If the total price is over Rs. 5000, apply a 10% discount; otherwise, log the original price.

CODE



```
1 1.PHP
2
3 1. Shopping Cart:
4 <?php
5 function calculateTotalPrice($items) {
6     $totalPrice = 0;
7     foreach ($items as $item) {
8         $totalPrice += $item['price'];
9     }
10     if ($totalPrice > 5000) {
11         $discountedPrice = $totalPrice * 0.9;
12         return $discountedPrice;
13     } else {
14         return $totalPrice;
15     }
16 }
17 // Example usage:
18 $items = array(
19     array("item" => "Shirt", "price" => 1500),
20     array("item" => "Jeans", "price" => 2500),
21     array("item" => "Shoes", "price" => 1200)
22 );
23 $totalPrice = calculateTotalPrice($items);
24 echo "Total Price: Rs. " . $totalPrice;
25 ?>
```

OUTPUT



Q2. Simulate a traffic light system using if-else statements. Log the appropriate message for each colour of the traffic light (e.g. "Green- Go," "Yellow - Slow down," "Red - Stop")

CODE:-

```
1 2. Traffic Light Simulation:
2 php
3 <?php
4 $color = "Red"; // Assuming the color of the traffic light
5
6 if ($color == "Green") {
7     echo "Green - Go";
8 } elseif ($color == "Yellow") {
9     echo "Yellow - Slow down";
10 } elseif ($color == "Red") {
11     echo "Red - Stop";
12 } else {
13     echo "Invalid color";
14 }
15 ?>
16
```

OUTPUT:-



Q3.Create a PHP program for a fitness app. The program will take the number of steps walked in a day as input and determine the fitness level based on the following rules:

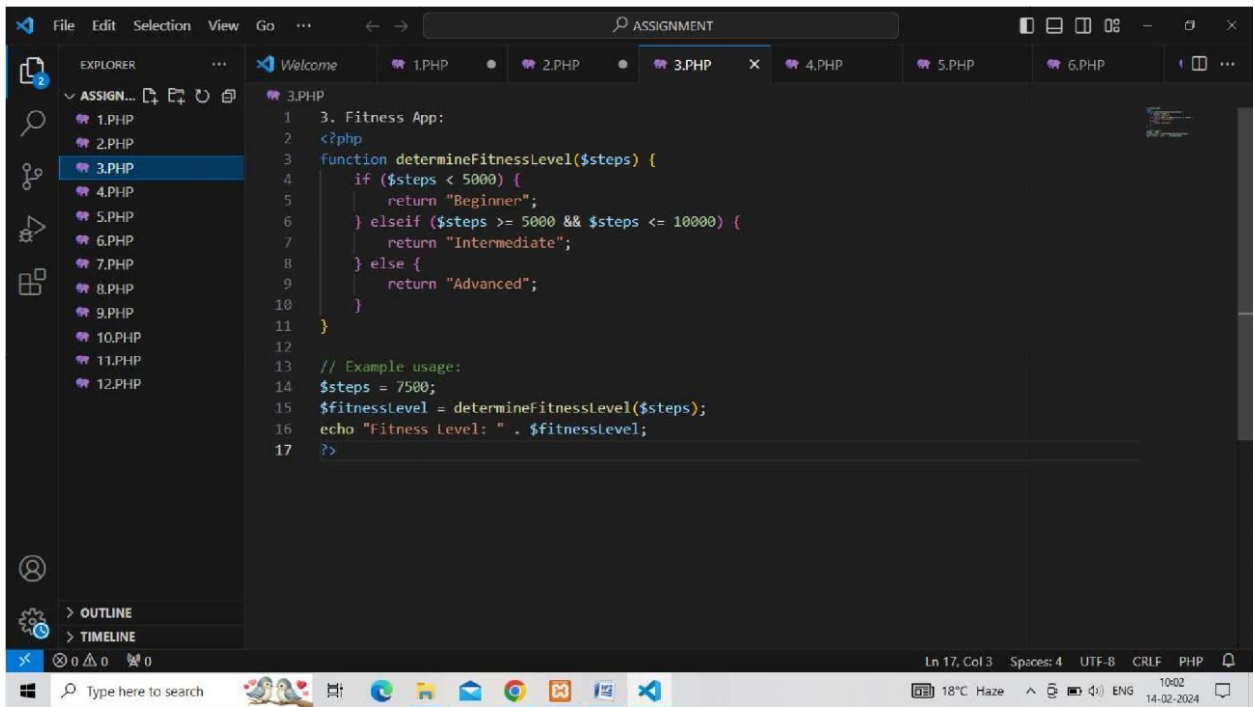
If the number of steps is less than 5000, the fitness level is 'Beginner'.

If the number of steps is between 5000 and 10000 (inclusive), the fitness level is 'Intermediate'

If the number of steps is greater than 10000, the fitness level is 'Advanced'.

Provide a PHP code snippet for this program, including the conditional statements to determine the fitness level based on the input number of steps.

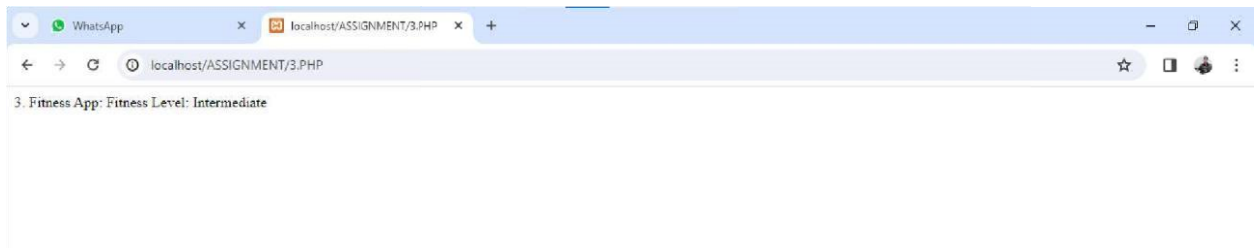
CODE:-



The screenshot shows a code editor with a dark theme. The Explorer panel on the left lists files from 1.PHP to 12.PHP, with 3.PHP selected. The main editor displays the code for 3.PHP, which is a PHP script titled '3. Fitness App:'. It defines a function `determineFitnessLevel($steps)` that returns 'Beginner', 'Intermediate', or 'Advanced' based on the number of steps. The script also includes an example usage where `$steps` is set to 7500, resulting in a 'Fitness Level: Intermediate' output. The status bar at the bottom indicates the cursor is at line 17, column 3, and the file is encoded in UTF-8 with CRLF line endings.

```
1 3. Fitness App:
2 <?php
3 function determineFitnessLevel($steps) {
4     if ($steps < 5000) {
5         return "Beginner";
6     } elseif ($steps >= 5000 && $steps <= 10000) {
7         return "Intermediate";
8     } else {
9         return "Advanced";
10    }
11 }
12
13 // Example usage:
14 $steps = 7500;
15 $fitnessLevel = determineFitnessLevel($steps);
16 echo "Fitness Level: " . $fitnessLevel;
17 ?>
```

OUTPUT:-



4. Develop a PHP program for a grading system. The program will take a student's score as input and determine the grade based on the following rules:

If the score is less than 60, the grade is 'F'

If the score is between 60 and 70 (inclusive), the grade is 'D'.

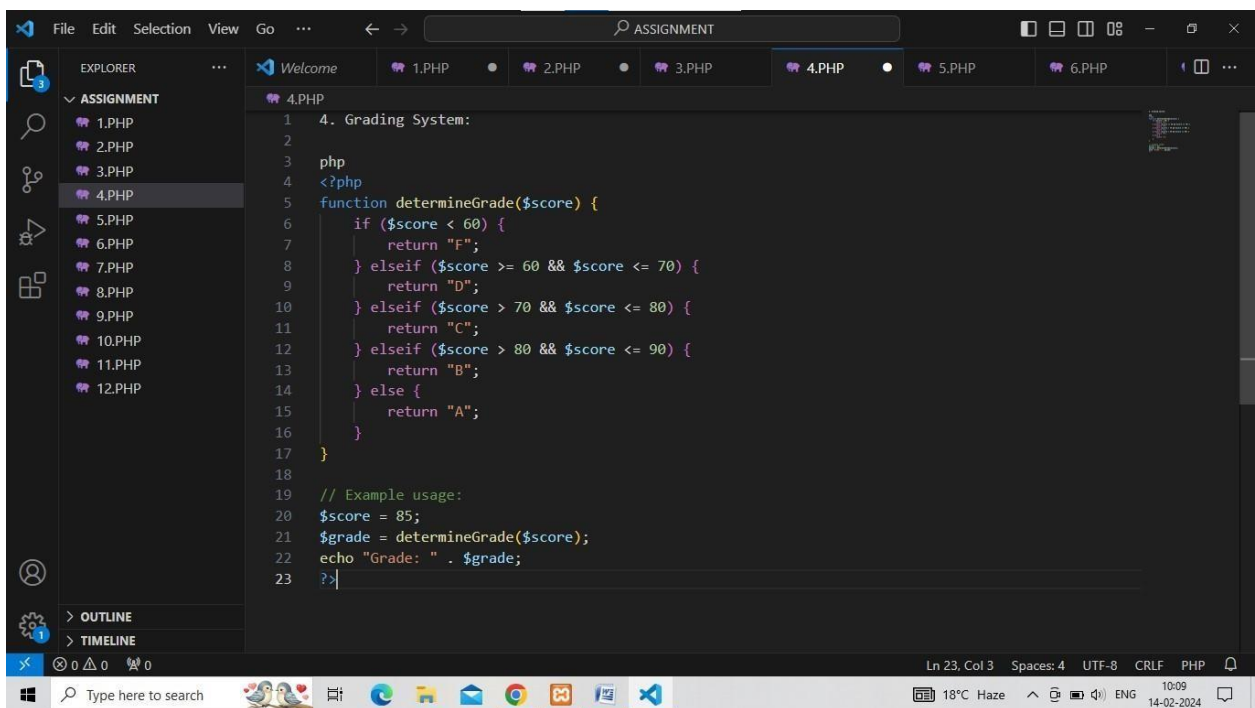
If the score is between 71 and 80 (inclusive), the grade is 'C'.

If the score is between 81 and 90 (inclusive), the grade is 'B'.

If the score is greater than 90, the grade is 'A'.

Provide a PHP code snippet for this program, including the conditional statements to determine the grade based on the input score

CODE:-



The screenshot shows a code editor with a dark theme. The Explorer panel on the left shows a project named 'ASSIGNMENT' with files 1.PHP through 12.PHP. File 4.PHP is selected. The main editor area shows the following PHP code:

```
1 4. Grading System:
2
3 php
4 <?php
5 function determineGrade($score) {
6     if ($score < 60) {
7         return "F";
8     } elseif ($score >= 60 && $score <= 70) {
9         return "D";
10    } elseif ($score > 70 && $score <= 80) {
11        return "C";
12    } elseif ($score > 80 && $score <= 90) {
13        return "B";
14    } else {
15        return "A";
16    }
17 }
18
19 // Example usage:
20 $score = 85;
21 $grade = determineGrade($score);
22 echo "Grade: " . $grade;
23 ?>
```

The status bar at the bottom indicates 'Ln 23, Col 3', 'Spaces: 4', 'UTF-8', 'CRLF', and 'PHP'.

OUTPUT:-



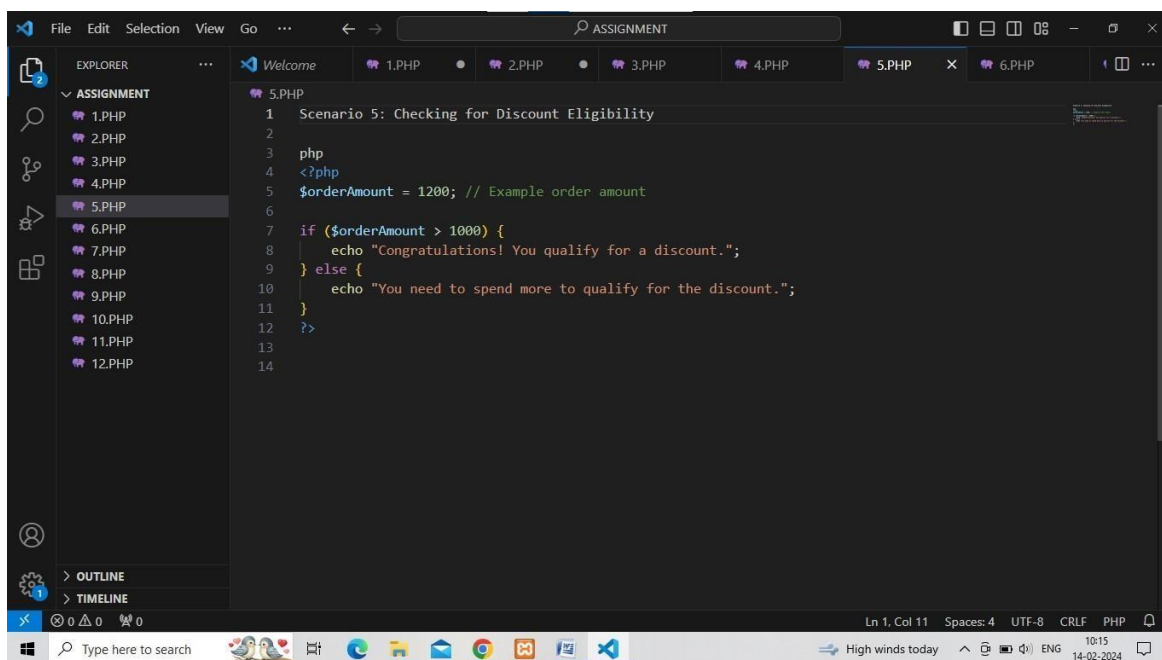
Q5. Scenario: Suppose you are developing a website for an online store. The store offers a discount on orders over Rs.

1000. Write

a piece of PHP code using conditional control structures to

check if the total order amount qualifies for the discount and display an appropriate message to the user.

CODE:-



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left lists files from 1.PHP to 12.PHP, with 5.PHP selected. The main editor window displays the code for 5.PHP, titled 'Scenario 5: Checking for Discount Eligibility'. The code is as follows:

```
1 Scenario 5: Checking for Discount Eligibility
2
3 php
4 <?php
5 $orderAmount = 1200; // Example order amount
6
7 if ($orderAmount > 1000) {
8     echo "Congratulations! You qualify for a discount.";
9 } else {
10     echo "You need to spend more to qualify for the discount.";
11 }
12 ?>
13
14
```

OUTPUT:-



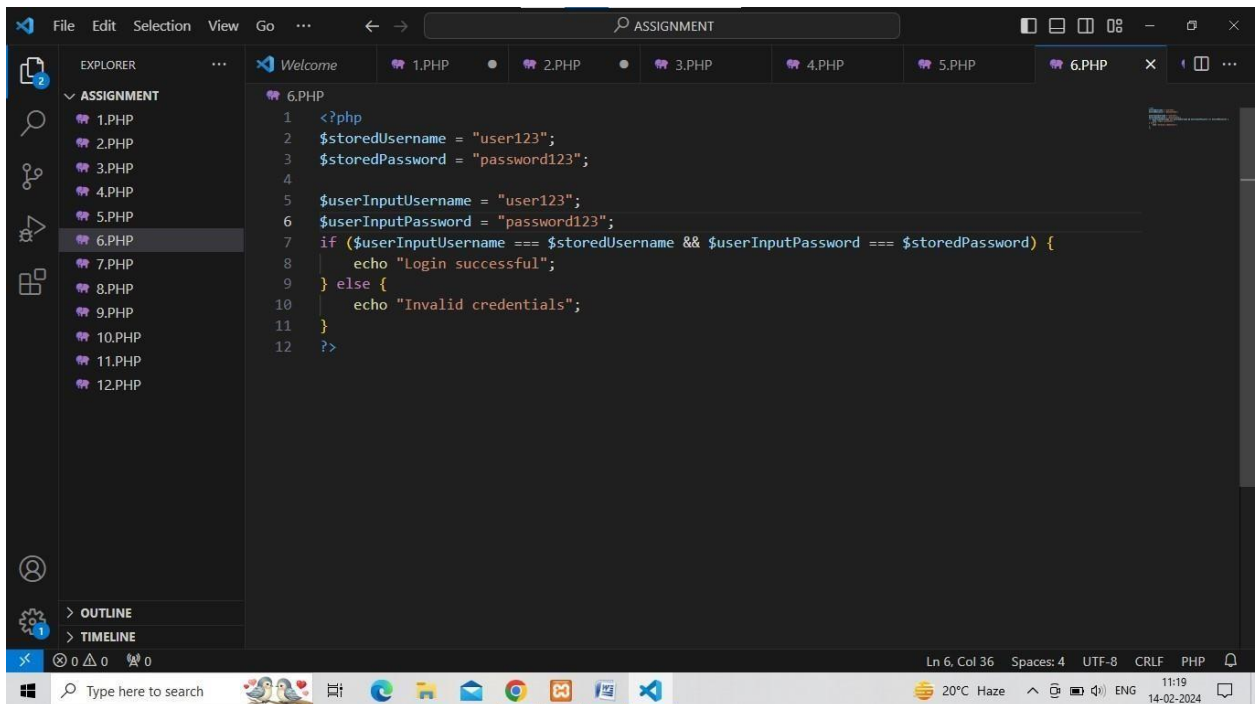
Q6 . Scenario: You are building a login system for a web application.

After users submit their username and password, you need to

verify if the credentials are correct before granting access.

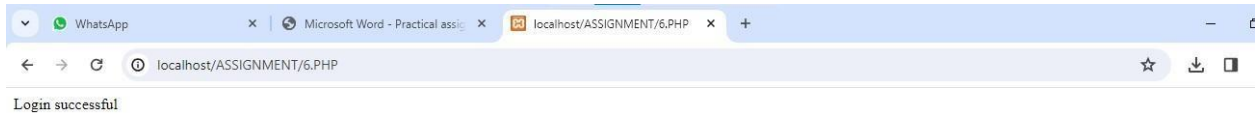
Write

a PHP script that checks if the provided username and password match the stored credentials. If they match, echo "Login successful"; otherwise, echo "Invalid credentials" CODE:-

A screenshot of a code editor window titled "ASSIGNMENT". The Explorer panel on the left shows a folder named "ASSIGNMENT" containing files 1.PHP through 12.PHP, with 6.PHP selected. The main editor area displays the code for 6.PHP. The code defines stored credentials and checks user input against them. The status bar at the bottom indicates the cursor is at line 6, column 36, with 4 spaces, UTF-8 encoding, CRLF line endings, and the PHP file type.

```
1 <?php
2 $storedUsername = "user123";
3 $storedPassword = "password123";
4
5 $userInputUsername = "user123";
6 $userInputPassword = "password123";
7 if ($userInputUsername === $storedUsername && $userInputPassword === $storedPassword) {
8     echo "Login successful";
9 } else {
10     echo "Invalid credentials";
11 }
12 ?>
```

OUTPUT:-



Q7. Scenario: Imagine you are developing a weather application.

Depending on the current temperature, the application provides

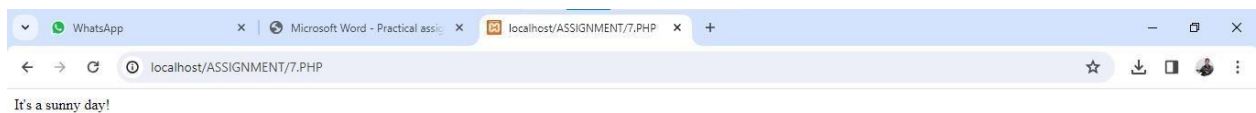
Different recommendations. Write a PHP script that takes the

current temperature as input and outputs a recommendation. For

example, if the temperature is above 25°C, echo "It's a sunny day!"; otherwise, echo "Consider taking an umbrella" CODE:-


```
1 <?php
2 $currentTemperature = 30; // Example temperature
3
4 if ($currentTemperature > 25) {
5     echo "It's a sunny day!";
6 } else {
7     echo "Consider taking an umbrella";
8 }
9 ?>
```

OUTPUT:-



Q8. Scenario: You are creating a grading system for a school website.

Based on the score obtained by a student in an exam, you need to

assign a grade. Write a PHP script that takes the score as input and assigns a grade according to the following criteria:

Score \geq 90: Grade A

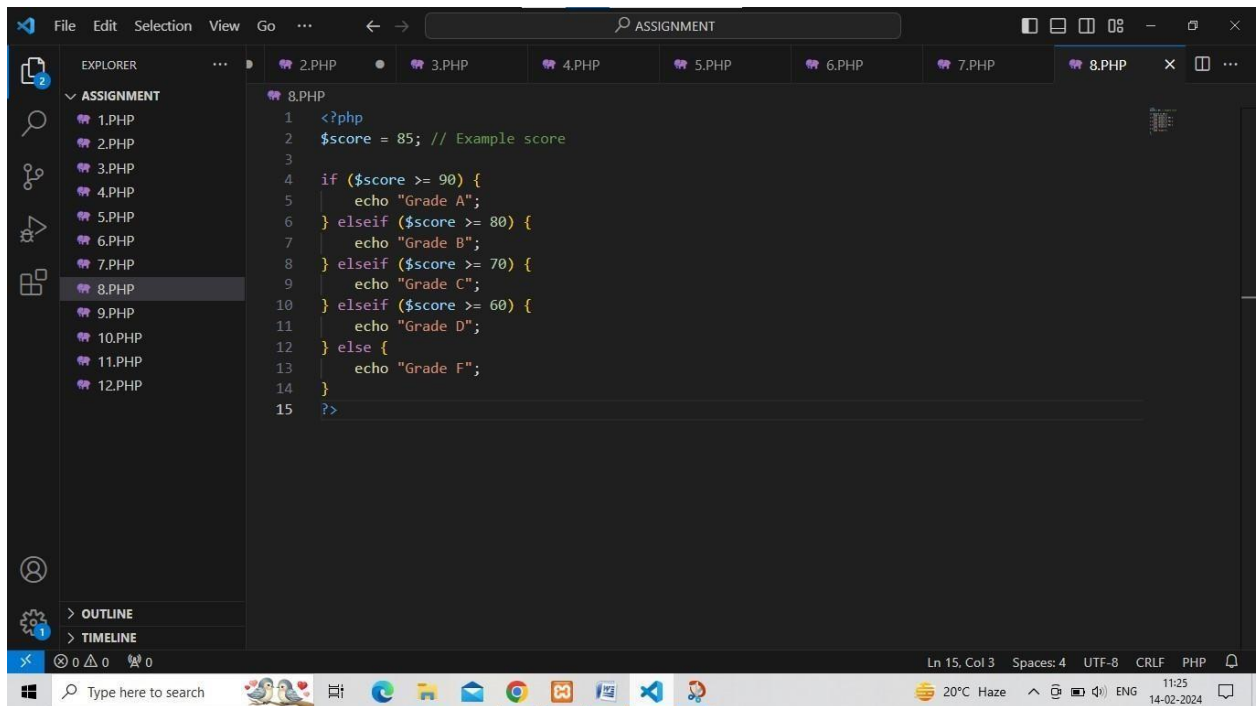
Score \geq 80: Grade B

Score \geq 70: Grade C

Score \geq 60: Grade D

Score $<$ 60: Grade &F

CODE:-

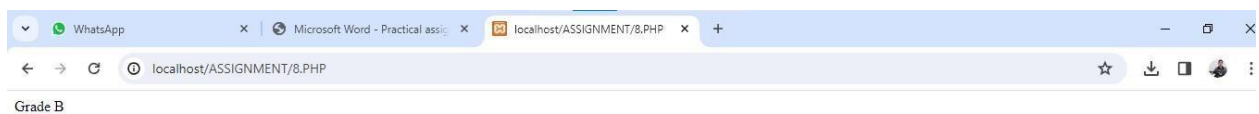


The screenshot shows a code editor with a dark theme. The Explorer panel on the left shows a project named 'ASSIGNMENT' with files 1.PHP through 12.PHP. File 8.PHP is selected. The main editor area shows the following PHP code:

```
1 <?php
2 $score = 85; // Example score
3
4 if ($score >= 90) {
5     echo "Grade A";
6 } elseif ($score >= 80) {
7     echo "Grade B";
8 } elseif ($score >= 70) {
9     echo "Grade C";
10 } elseif ($score >= 60) {
11     echo "Grade D";
12 } else {
13     echo "Grade F";
14 }
15 ?>
```

The status bar at the bottom indicates 'Ln 15, Col 3', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and the system clock shows '11:25 14-02-2024'.

OUTPUT:-



Q9. Scenario: Suppose you are developing a user profile Page for d

social media platform. You want to display different messages to

users based on their account type (e.g., basic or premium).
Write

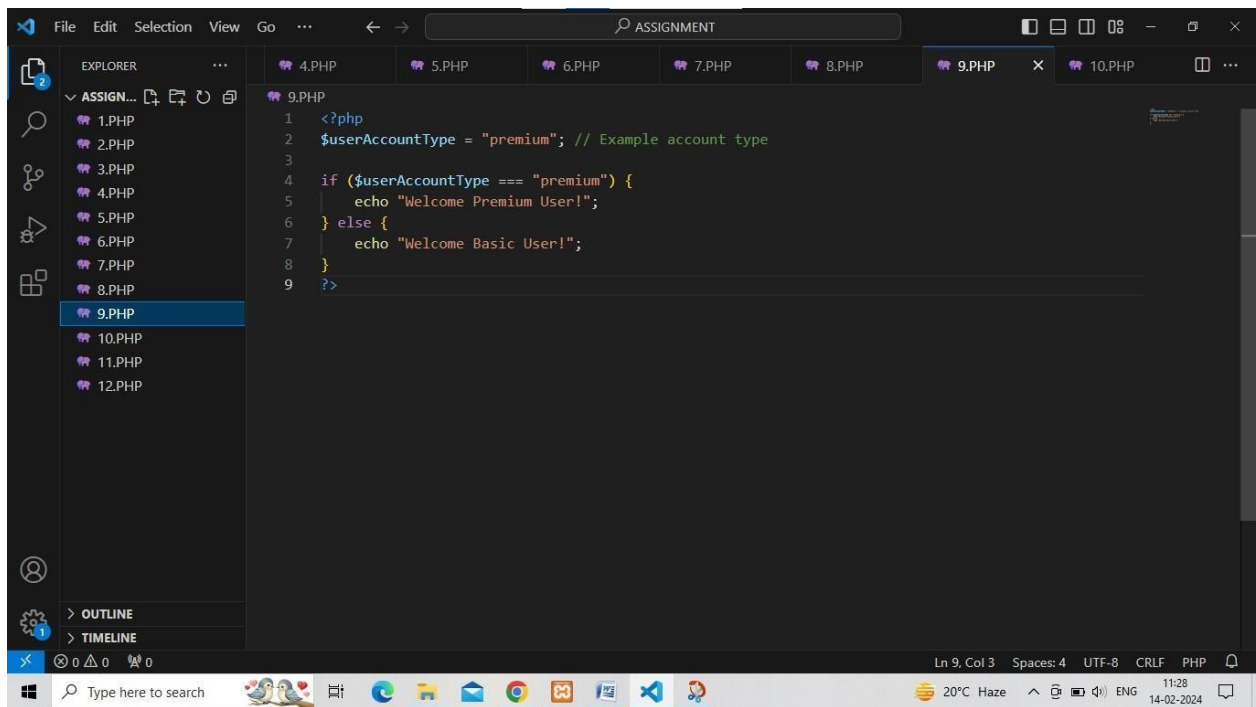
a PHP script that checks the user's account type and displays a

personalized message accordingly. For example, if the user has a

premium account, echo ""Welcome Premium User!";
otherwise

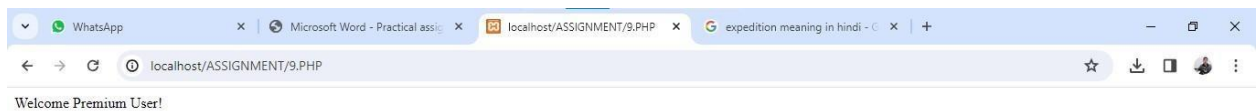
echo "Welcome Basic User!"

CODE:-



```
1 <?php
2 $userAccountType = "premium"; // Example account type
3
4 if ($userAccountType === "premium") {
5     echo "Welcome Premium User!";
6 } else {
7     echo "Welcome Basic User!";
8 }
9 ?>
```

OUTPUT:-



Q10. Scenario: You are developing a blog platform where users can

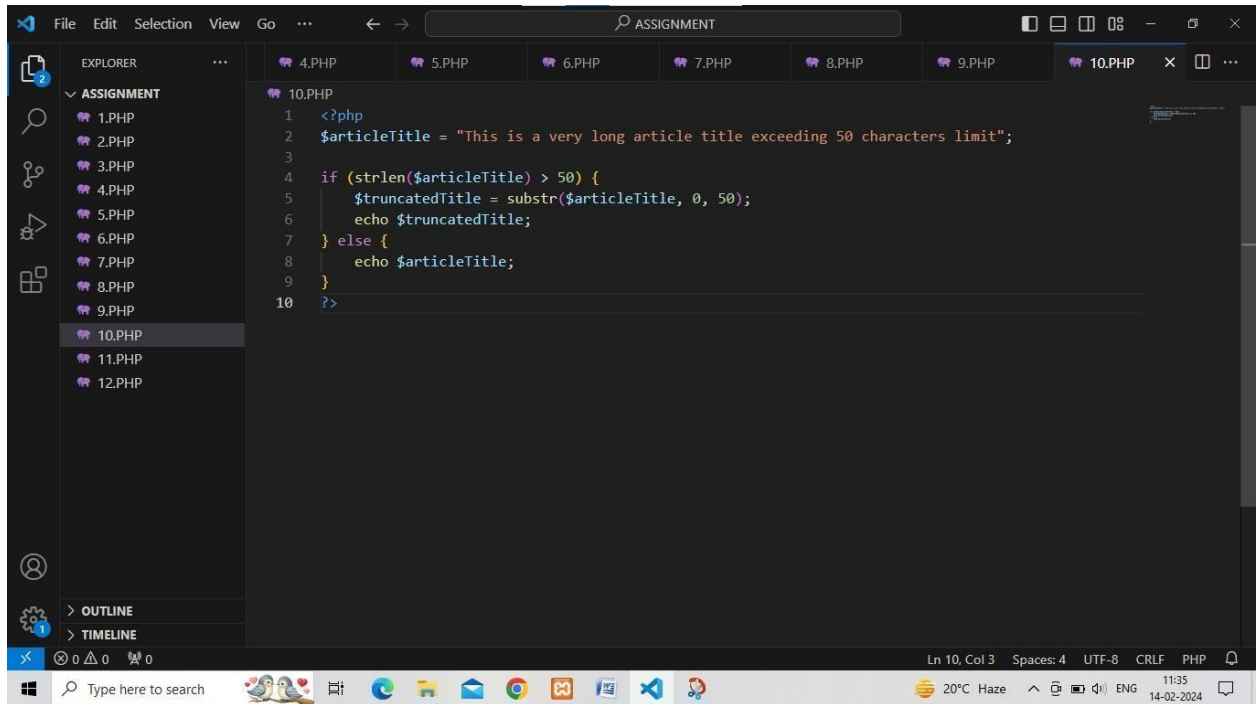
publish articles. However, you want to implement a feature that

Limits the length of article titles to 50 characters. Write a PHP

script that checks the length of the article title and truncates it to

50 characters if it exceeds the limit.

CODE:-

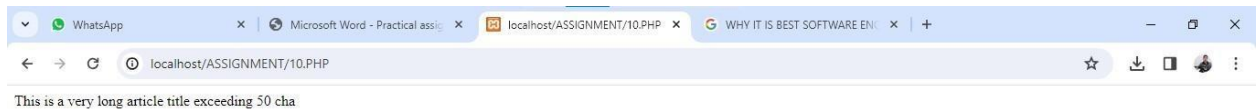


The screenshot shows a code editor with a dark theme. The Explorer panel on the left shows a folder named 'ASSIGNMENT' containing files 1.PHP through 12.PHP. File 10.PHP is selected. The main editor area shows the following PHP code:

```
1 <?php
2 $articleTitle = "This is a very long article title exceeding 50 characters limit";
3
4 if (strlen($articleTitle) > 50) {
5     $truncatedTitle = substr($articleTitle, 0, 50);
6     echo $truncatedTitle;
7 } else {
8     echo $articleTitle;
9 }
10 ?>
```

The status bar at the bottom indicates 'Ln 10, Col 3', 'Spaces: 4', 'UTF-8', 'CRLF', and 'PHP'.

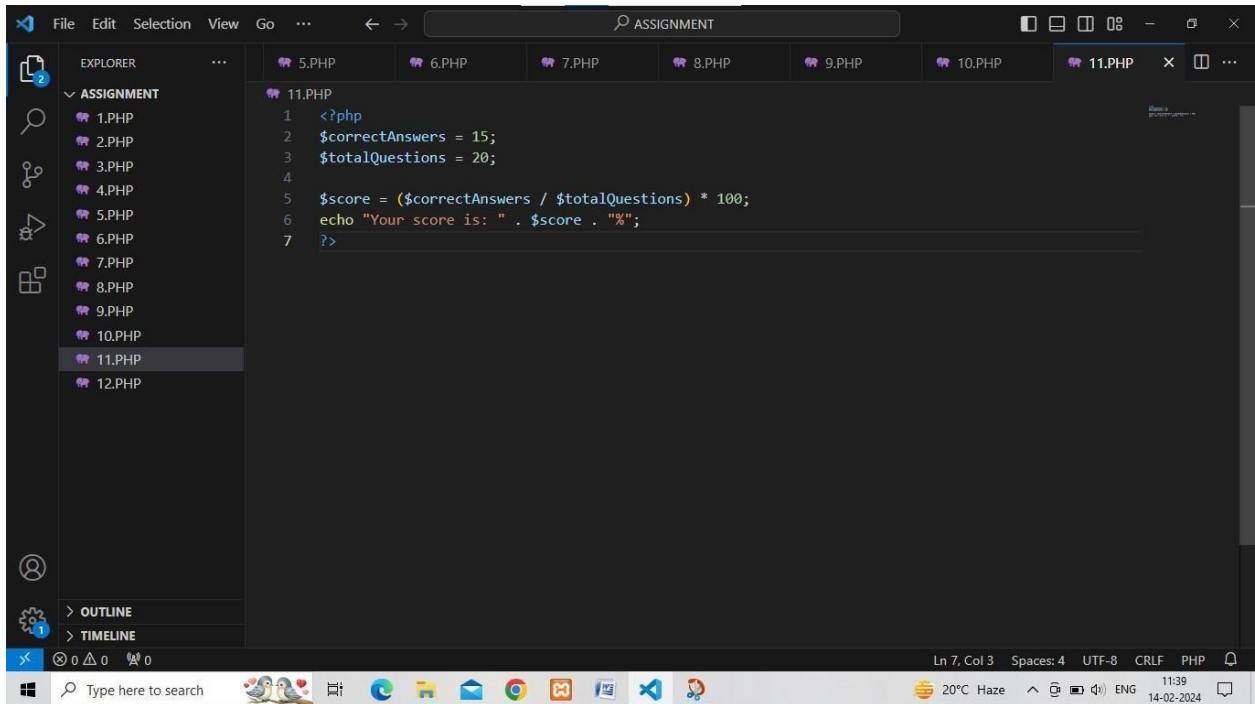
OUTPUT:-



Q11.Scenario: Suppose you are developing a quiz application where users can attempt multiple-choice questions. You want to implement a feature that calculates the user's score based on the

number of correct answers. Write a PHP script that calculates the user's score and displays it at the end of the quiz.

CODE:-

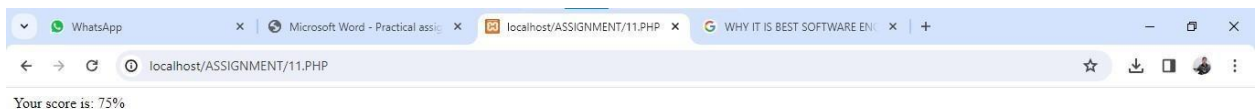


The screenshot shows a code editor with a dark theme. The Explorer panel on the left lists files from 1.PHP to 12.PHP, with 11.PHP selected. The main editor area displays the following PHP code:

```
1 <?php
2 $correctAnswers = 15;
3 $totalQuestions = 20;
4
5 $score = ($correctAnswers / $totalQuestions) * 100;
6 echo "Your score is: " . $score . "%";
7 ?>
```

The status bar at the bottom indicates the cursor is at Line 7, Column 3, with 4 spaces, UTF-8 encoding, CRLF line endings, and PHP syntax highlighting.

OUTPUT:-



Q12. Scenario: You are building a subscription-based service where users can choose between different subscription plans. However,

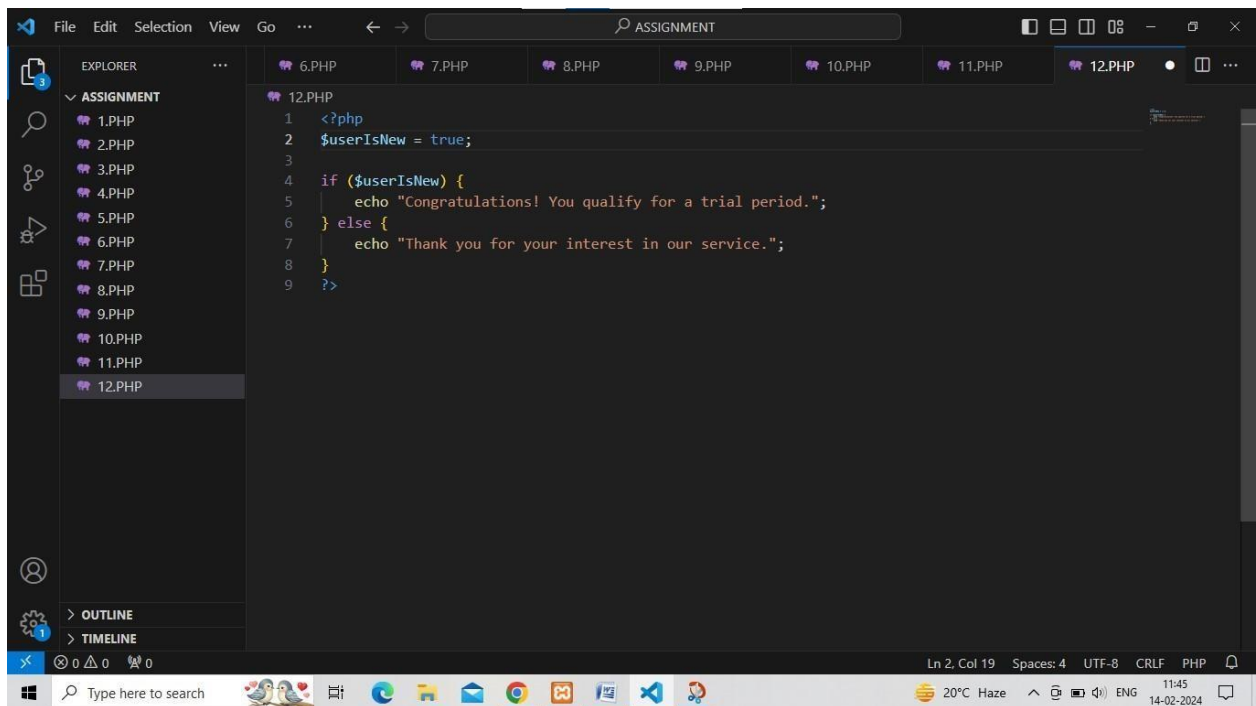
you want to offer a trial period for new users. Write a PHP script that checks if the user is a new user and offers them a trial period if they haven't subscribed before.

Edit

Tools

Selection

CODE:-

A screenshot of a code editor window titled "ASSIGNMENT". The editor shows a PHP file named "12.PHP" with the following code:

```
1 <?php
2 $userIsNew = true;
3
4 if ($userIsNew) {
5     echo "Congratulations! You qualify for a trial period.";
6 } else {
7     echo "Thank you for your interest in our service.";
8 }
9 ?>
```

The left sidebar shows a file explorer with a folder named "ASSIGNMENT" containing files 1.PHP through 12.PHP. The bottom status bar indicates the current position is "Ln 2, Col 19" with "Spaces: 4", "UTF-8" encoding, "CRLF" line endings, and "PHP" file type. The system tray at the bottom shows the date and time as "14-02-2024 11:45".

OUTPUT:-

