**Q.1 Write a PHP script to demonstrate the usage of all the basic data types mentioned above and constants.**

**CODE:**

<?php

*/\* Practical-1: Write a PHP script to demonstrate the usage of all the basic data*

*types mentioned above and constants.*

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*Branch: B.Tech Computer Science and Engineering \*/*

$var1 = 'Single Quote String';

echo"$var1 \n";

$var2 = "Double Quote String";

echo"$var2 \n";

$var3 = 'Variable inside Single Quote String: $var1';

echo"$var3 \n";

$var4 = "Variable inside Double Quote String: $var1";

echo"$var4 \n\n";

$var5 = 1104;

var\_dump($var5);

$var6 = 30.07;

var\_dump($var6);

echo "\n";

$var7 = true;

var\_dump($var7);

$var8 = false;

var\_dump($var8);

echo"\n";

$var9 = array("AMTICS", "CGPIT", "SRIMCA");

print\_r($var9);

var\_dump($var9);

echo"\n";

$var10 = array("Department"=>"B.Tech CSE", "College"=>"AMTICS", "University"=>"UTU");

print\_r($var10);

var\_dump($var10);

echo"\n";

class Car

{

public $color;

public $brand;

public function \_\_construct($color,$brand)

{

*$this*->color=$color;

*$this*->brand=$brand;

}

public function message()

{

return "My car is a ".*$this*->color." color ".*$this*->brand."!\n";

}

}

$myCar = new Car("Black","Mercedes");

echo $myCar -> message();

$myCar = new Car("White","Rolls-Royce");

echo $myCar -> message();

echo"\n";

$x = "Hello World";

$x = null;

var\_dump($x);

echo"\n";

define("GREETING","Welcome to AMTICS");

echo GREETING;

echo "\n";

define("university", [

"GTU",

"UTU",

"IIT"

]);

print\_r(university);

?>

**Q.2 Write a PHP script to calculate percentage of a student using switch case statement and accordingly award grade using if...elseif ladder.**

**CODE:**

<?php

*/\* Practical-2: Write a PHP script to calculate percentage of a student using switch case statement and accordingly award grade using if...elseif ladder.*

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$score = readline("-->> Enter Your marks: ");

if ($score>100 || $score<0)

{

echo "Enter valid marks!";

}

else

{

$percentage = 0;

switch (true)

{

case ($score >= 90 && $score <= 100):

$percentage = 90;

break;

case ($score >= 80 && $score < 90):

$percentage = 80;

break;

case ($score >= 70 && $score < 80):

$percentage = 70;

break;

case ($score >= 60 && $score < 70):

$percentage = 60;

break;

default:

$percentage = 0;

break;

}

$grade = '';

if ($percentage >= 90)

{

$grade = 'O';

}

elseif ($percentage >= 80)

{

$grade = 'A';

}

elseif ($percentage >= 70)

{

$grade = 'B';

}

elseif ($percentage >= 60)

{

$grade = 'C';

}

elseif ($percentage >= 50)

{

$grade = 'D';

}

else

{

$grade = 'F';

}

echo "Percentage --> " . ($score / 100) \* 100 . "%\n";

echo "Grade --> " . $grade ."\n";

}

?>

Q.3 a) Write a PHP script to calculate the first 20 numbers of Fibonacci Series.

b) Write a PHP script to calculate the sum of prime numbers from 1 to100.

c) Write a PHP script to draw pascal triangles till level 5.

d) Write a PHP script to take username and password as input and print it as key- value pair.

CODE:

<?php

*/\* Practical-3:*

*a) Write a PHP script to calculate first 20 numbers of fibonacci series.*

*b) Write a PHP script to calculate sum of prime numbers from 1 to 100.*

*c) Write a PHP script to draw pascal triangle till level 5.*

*d) Write a PHP script to take username and password as input and print it as key- value pair.*

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*//PART-A*

$t1 = 0;

$t2 = 1;

$n = 0;

echo "First 20 numbers in Fibonacci Series --> ";

echo $t1.' '.$t2.' ';

while ($n < 18)

{

$t3 = $t2 + $t1;

echo $t3.' ';

$t1 = $t2;

$t2 = $t3;

$n += 1;

}

*//PART B*

$sum = 0;

for ($number = 2; $number <= 100; $number++)

{

$isPrime = true;

for ($i = 2; $i <= sqrt($number); $i++)

{

if ($number % $i === 0)

{

$isPrime = false;

break;

}

}

if ($isPrime)

{

$sum += $number;

}

}

echo "\n"."\n"."Sum of prime numbers from 1 to 100 --> $sum"."\n\n";

*//PART C*

$r = 5;

$c = 1;

for ($i = 0; $i < $r; $i++) {

echo "\t";

for ($ws = 1; $ws <= $r - $i; $ws++) {

echo " ";

}

for ($j = 0; $j <= $i; $j++) {

if ($j == 0 || $i == 0)

$c = 1;

else

$c = $c \* ($i - $j + 1) / $j;

echo $c . " ";

}

echo "\n";

}

echo "\n";

?>

*<!-- Practical-3 d): Write a PHP script to take username and password as input and print it as key- value pair.*

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<!DOCTYPE html>

<html>

<head>

<title>Login Form</title>

</head>

<body>

<h2>Login Form</h2>

<form action="practical3d.php" method="post">

<label for="username">Username:</label>

<input type="text" name="username" id="username" required><br><br>

<label for="password">Password:</label>

<input type="password" name="password" id="password" required><br><br>

<button type="submit">Submit</button>

</form>

</body>

</html>

// practical3d.php

<?php

header('Content-type: text/plain');

if ($\_SERVER["REQUEST\_METHOD"] === "POST")

{

$username = $\_POST["username"];

$password = $\_POST["password"];

echo "Username: $username \n";

echo "Password: $password";

}

?>

Q.4 a) Write a PHP script to ?ind unique elements from two associative arrays.

b) Write a PHP script to calculate matrix multiplication of indexed array

CODE: