MODULE – 3

TOPIC - CORE PHP

• Write a PHP program to enter marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer, calculate percentage and grade by if else.

CODE:

```
k?php
echo "<h3>Marks of five Subjets are: </h3>";
sub 1 = 70;
echo "Physics: ".$sub_1."<br>";
sub_2 = 50;
echo "Chemistry: ".$sub 2."<br>";
sub 3 = 65;
echo "Biology: ".$sub_3."<br>";
sub 4 = 85;
echo "Mathematics: ".$sub_4."<br>";
sub_5 = 79;
echo "Computer: ".$sub 5."<br><br>";
$total = NULL;
$average = NULL;
$percentage = NULL;
$grade = NULL;
$total = $sub_1 + $sub_2 + $sub_3 + $sub_4 + $sub_5;
$average = $total / 5.0;
$percentage = ($total / 500.0) * 100;
if ($average >= 90)
    $grade = "A";
else if ($average >= 80 && $average < 90)
    $grade = "B";
else if ($average >= 70 && $average < 80)
    $grade = "C";
else if ($average >= 60 && $average < 70)
   $grade = "D";
    $grade = "E";
```

```
echo "The Total marks = " . $total . "/500\n"."<br>;
echo "The Average marks = " . $average . "\n"."<br>;
echo "The Percentage = " . $percentage . "%\n"."<br>;
echo "The Grade = '" . $grade . "'\n";
?>
```

OUTPUT:

Marks of five Subjets are:

Physics: 70 Chemistry: 50 Biology: 65 Mathematics: 85 Computer: 79

The Total marks = 349/500 The Average marks = 69.8 The Percentage = 69.8%

The Grade = 'D'

• write a PHP program for find "Thursday" in week using switch Function.

CODE:

```
<?php
$day="thurs";
switch ($day) {
    case 'mon':
        echo "you choose the monday";
    case 'tues':
        echo "you choose the tuesday";
    case 'wedns':
        echo "you choose the wednsday";
    case 'thurs':
        echo "you choose the thursday";
    case 'fri':
        echo "you choose the friday";
        break;
    case 'satur':
        echo "you choose the saturday";
    case 'sun':
        echo "you choose the sunday";
        break;
```

OUTPUT:

you choose the thursday

• Write a PHP program to check Leap years between 1901 to 2016 Using nested if.

CODE:

```
<?php
function isLeap($year)
{
    return(date('L',mktime(0,0,0,1,1,$year))==1);
}
for($year=1901;$year<2017;$year++)
{
    if(isLeap($year))
    {
        echo "$year: Leap Year<br/>";
    }
    else
    {
        echo "$year: Not Leap Year<br/>";
    }
}
```

OUTPUT:

1901: Not Leap Year 1902: Not Leap Year 1903: Not Leap Year 1904: Leap Year 1905: Not Leap Year 1906: Not Leap Year 1907: Not Leap Year 1908: Leap Year 1909: Not Leap Year 1910: Not Leap Year 1911: Not Leap Year 1912: Leap Year 1913: Not Leap Year 1914: Not Leap Year 1915: Not Leap Year 1916: Leap Year 1917: Not Leap Year 1918: Not Leap Year 1919: Not Leap Year 1920: Leap Year 1921: Not Leap Year 1922: Not Leap Year 1923: Not Leap Year 1924: Leap Year 1925: Not Leap Year 1926: Not Leap Year 1927: Not Leap Year 1928: Leap Year 1929: Not Leap Year 1930: Not Leap Year 1931: Not Leap Year 1932: Leap Year 1933: Not Leap Year 1934: Not Leap Year 1935: Not Leap Year 1936: Leap Year 1937: Not Leap Year

1938: Not Leap Year 1939: Not Leap Year 1940: Leap Year 1941: Not Leap Year 1942: Not Leap Year 1943: Not Leap Year 1944: Leap Year 1945: Not Leap Year 1946: Not Leap Year 1947: Not Leap Year 1948: Leap Year 1949: Not Leap Year 1950: Not Leap Year 1951: Not Leap Year 1952: Leap Year 1953: Not Leap Year 1954: Not Leap Year 1955: Not Leap Year 1956: Leap Year 1957: Not Leap Year 1958: Not Leap Year 1959: Not Leap Year 1960: Leap Year 1961: Not Leap Year 1962: Not Leap Year 1963: Not Leap Year 1964: Leap Year 1965: Not Leap Year 1966: Not Leap Year 1967: Not Leap Year 1968: Leap Year 1969: Not Leap Year 1970: Not Leap Year 1971: Not Leap Year 1972: Leap Year 1973: Not Leap Year 1974: Not Leap Year

1975: Not Leap Year 1976: Leap Year 1977: Not Leap Year 1978: Not Leap Year 1979: Not Leap Year 1980: Leap Year 1981: Not Leap Year 1982: Not Leap Year 1983: Not Leap Year 1984: Leap Year 1985: Not Leap Year 1986: Not Leap Year 1987: Not Leap Year 1988: Leap Year 1989: Not Leap Year 1990: Not Leap Year 1991: Not Leap Year 1992: Leap Year 1993: Not Leap Year 1994: Not Leap Year 1995: Not Leap Year 1996: Leap Year 1997: Not Leap Year 1998: Not Leap Year 1999: Not Leap Year 2000: Leap Year

2001: Not Leap Year 2002: Not Leap Year 2003: Not Leap Year 2004: Leap Year 2005: Not Leap Year 2006: Not Leap Year 2007: Not Leap Year 2008: Leap Year 2009: Not Leap Year 2010: Not Leap Year 2011: Not Leap Year 2012: Leap Year 2013: Not Leap Year 2014: Not Leap Year 2015: Not Leap Year 2016: Leap Year

• Write a PHP program to find the largest of three numbers using ternary Operator.

CODE:

```
<!php
function largest($x,$y,$z)
{
    $max=$x;
    $max=($x>$y)? (($x>$z)?$x:$z):(($y>$z)?$y:$z);
    echo "Largest number among $x, $y, $z is: $max";
}
largest(100,200,500);

?:
}
```

OUTPUT:

Largest number among 100, 200, 500 is: 500

• Write a program in PHP to print Fibonacci series. 0, 1, 1, 2, 3, 5, 8, 13, 21, 34.

CODE:

```
<?php
$num=0;
$n1=0;
$n2=1;
echo "<h3>Fibonacci series for first 12 numbers: </h3>";
echo $n1.' '.$n2.' ';
while ($num<10) {
      $n3=$n2+$n1;
      echo $n3.' |';
      $n1=$n2;
      $n2=$n3;
      $num=$num+1;
}
</pre>
```

```
Fibonacci series for first 12 numbers: 0 1 1 2 3 5 8 13 21 34 55 89
```

• Write a program to find whether a number is Armstrong or not.

CODE:

```
<?php
$num=407;
$total=0;
$x=$num;
while($x!=0)
{
    $rem=$x*10;
    $total=$total+$rem*$rem*$rem;
    $x=$x/10;
}
if($num==$total)
{
    echo "Yes it is an Armstrong Number";
}
else
{
    echo "No is is not an Armstrong Number";
}
?>
```

OUTPUT:

Yes it is an Armstrong Number

• Write a program for this Pattern:

```
*****

*

*

*
```

CODE:

```
*****

*

*

*

*
```

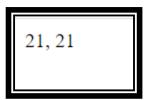
• What will be the values of \$a and \$b after the code below is executed? Explain your answer.

```
$a = '1';
$b = &$a;
$b = "2$b";
```

CODE:

```
<?php
$a = '1';
$b = &$a;
$b = "2$b";
echo $a.", ".$b;
?>
```

OUTPUT:



EXPLANATON:

Creates a variable \$a and assigns the value '1' to it, then it creates a second variable \$b which points to the same memory space as \$a, then it changes \$b (and with it, \$a as well) to be the string '2' followed by whatever \$b was moment ago (which was '1', so the result is now '21'), and finally it prints the content of \$a followed by a comma and a space followed by the content of \$b.

If you followed all this, and if you understand that any change to \$a or \$b changes the other as well.

• How can you tell if a number is even or odd without using any Condition or loop?

CODE:

```
<?php
$arr=array("0"=>"Even","1"=>"Odd");
$check1=13;
$check2=12;
echo "Your Number is: ".$arr[$check1%2]."<br>echo "Your Number is: ".$arr[$check2%2];
echo "Your Number is: ".$arr[$check2%2];
}
```

OUTPUT:

Your Number is: Odd Your Number is: Even • Write program to remove duplicate values from array.

CODE:

```
<?php
$a=array("a"=>"red","b"=>"blue","c"=>"red");
print_r(array_unique($a));
?>
```

```
Array ( [a] => red [b] => blue )
```

• Get random values from array.

CODE:

```
<?php
$a=array("a"=>"21","b"=>"31","c"=>"7","d"=>"20");
$key=array_rand($a);
echo $a[$key];
?>
```



• Use a for loop to total the contents of an integer array called numbers which has five elements. Store the result in an integer called total.

CODE:

```
<?php
function sum($numbers,$total)
{
    $sum=0;
    for($i=0;$i<$total;$i++)
    $sum+=$numbers[$i];
    return $sum;
}
$numbers=array(12,4,16,9,10);
$total=sizeof($numbers);
echo "Total of given array is: ",sum($numbers,$total);
?>
```

OUTPUT:

Total of given array is: 51

• Declare a Multi-Dimensional array of floats called balances having Three rows and five columns.

CODE:

```
6.5 5.5 4.5 5.5 5.5
1.5 2.5 4.5 5.5 4.5
6.5 5.5 0.5 2.5 3.5
```