

Program statement: Write a simple calculator program in PHP using switch case.

Source code:

```
<?php
$a = 90;
$b = 0;
$c = "Divide";
$result = 0;

switch ($c)
{
    case "Add":{
        $result = $a + $b;
        echo $result;
        }break;
    case "Subtract":{
        $result = $a - $b;
        echo $result;
        }break;
    case "Multiply":{
        $result = $a * $b;
        echo $result;
        }break;
    case "Divide":
    {
        if ($b<>0):
            $result = $a / $b;
        else:
            echo "Division not possible";
        endif;
        echo $result;
        }break;
    default: echo "Wrong choice";
}
```

Program statement: Write a PHP program to find the prime factors of a number.

Source code:

```

<?php
$a=35;
echo "Prime Factors are: ";
for($i=2; $i<=$a/2; $i++)
{
    if($a%$i === 0):
        $f=0;
        for($j=2; $i<=$i/2; $j++)
        {
            if($i%$j===0)
                $f++;
        }
        if($f===0):
            echo $i." ";
        endif;
    endif;
}
?>

```

Program statement: Write a PHP program that will create a diamond pattern of stars.

Source code:

```

<?php
$n=11;

if ($n%2===0):
    $k=(int)$n/2;
else:
    $k=(int) ($n/2)+1;
endif;
for($i=$k; $i>=1; $i--)
{
    for($j=1; $j<=$n; $j++)
    {
        if($j === $i || $j === ($n+1-$i)):
            echo "*";
        else:
            echo " ";
        }
    }
}

```

