# Correction exercices les fonctions en php : Série 01

1. **Objectifs**
   - 
2. **Exercice 01**
   1. **Énoncé**
      - Vous pouvez visualiser **l'énoncé de l'activité**
   2. **Solution**

```
<!doctype html>
<html lang="fr">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">

    <title>Afficher le tableau multiplication</title>
    <style>
fieldset {
□□□border: 2px solid #dcdcdc;
□□□border-radius: 10px;
□□□padding: 10px 20px;
□□□text-align: leftt;
      width:50%;
□□}
    legend {width:25%}
</style>
  </head>
```

```
  <body>
<div class="container">
</br>
<?php
//Définition de la fonction
function factorielle($nbr)
    {
       if($nbr === 0) // condition d'arret
          return 1;
      else
          return $nbr*factorielle($nbr-1);
    }

if(isset($_POST["submit"]) && isset($_POST["txt_nbrfact"])){
$nbrfactorielle=$_POST["txt_nbrfact"];
$resultatFactorielle=factorielle($nbrfactorielle);
}
?>
<fieldset class="border p-4">
    <legend class="w-auto">Factorielle</legend>
<form class="form-block input-group-sm" method="post">
<div class="form-group row">
  <div class="col-lg-12">
    <label for="nbrligne" class="mr-sm-2">Saisir un nombre</label>
    <input type="number"  class="form-control mb-2 mr-sm-2" name="txt_nbrfact"
value="<?php if(isset($_POST['txt_nbrfact'])) echo $_POST['txt_nbrfact'];?>">
  </div>
  </div>

  <div class="form-group row">
  <div class="col-lg-12">
    <label for="nbrcolonne" class="mr-sm-2">Affichage de résultat</label>
    <input type="text"  class="form-control mb-2 mr-sm-2" name="txt_resultat"
disabled style="font-size: 30px;
  color: #999;"
    value="<?php if(isset($_POST['submit'])) echo $resultatFactorielle;?>">
    </div>
  </div>
  <div class="form-group row">
  <div class="col-lg-12">
  <button type="submit" class="btn btn-primary w-100 mb-2" name="submit">Calculer la
factorielle</button>
  </div>
```

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```
   </div>
</form>
</fieldset>


</div>
<!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"
crossorigin="anonymous"></script>
  </body>
</html>
```

## 3. Exercice 02

1. **Énoncé**
   - Vous pouvez visualiser **l'énoncé de l'activité**
2. **Solution**

```
<!doctype html>
<html lang="fr">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
```

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```
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">

    <title>Tableau de conversion</title>
    <style>
fieldset {
   border: 2px solid #dcdcdc;
   border-radius: 10px;
   padding: 10px 20px;
   text-align: leftt;
      width:50%;
  }
    legend {width:50%}
</style>
  </head>
  <body>
<div class="container">
</br>
<?php
    //Fahrenheit to celsius
function fahrenheit_vs_celsius($valeurSaisie)
{
 $celsius=5/9*($valeurSaisie-32);
 return $celsius ;
}
//Fahrenheit to kelvin
function fahrenheit_vs_kelvin($valeurSaisie)
{
 $kelvin=fahrenheit_vs_celsius($valeurSaisie) + 273.15;
 return $kelvin ;
}
//Celsius to fahrenheit
function celsius_vs_fahrenheit($valeurSaisie)
{
 $fahrenheit=$valeurSaisie*9/5+32;
 return $fahrenheit ;
}
//Celsius to kelvin
function celsius_vs_kelvin($valeurSaisie)
{
 $kelvin=$valeurSaisie+273.15;
 return $kelvin ;
```

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```
}
//Kelvin to fahrenheit equation
function kelvin_vs_fahrenheit($valeurSaisie)
{
$fahrenheit=9/5*($valeurSaisie-273.15)+32;
return $fahrenheit ;
}
//Kelvin to celsius equation
function kelvin_vs_celsius($valeurSaisie)
{
$celsius=$valeurSaisie-273.15;
return $celsius ;
}

?>

<html>
    <head>
        <title>Temp. Conv.</title>
    </head>
    <body>




    <fieldset class="border p-4">
    <legend class="w-auto">Tableau de conversion</legend>
<form class="form-block input-group-sm" method="post">
<div class="form-group row">
  <div class="col-lg-12">
                <input type="radio" name="depart" value="fahrenheit"> Fahrenheit
                <input type="radio" name="depart" value="celsius"> Celsius
                <input type="radio" name="depart" value="kelvin"> kelvin
</div>
</div>


<div class="form-group row">
  <div class="col-lg-12">
                  <input type="text"  class="form-control mb-2 mr-sm-2"
name="valeurSaisie"
     style="font-size: 30px;color: #999;"
    value="<?php if(isset($_POST['btnConversion'])) echo $_POST["valeurSaisie"];?>">
```

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```
<div class="form-group row">
  <div class="col-lg-12">
               <input type="radio" name="fin" value="fahrenheit"> Fahrenheit
               <input type="radio" name="fin" value="celsius"> Celsius
               <input type="radio" name="fin" value="kelvin"> kelvin


</div>
</div>
  <div class="form-group row">
  <div class="col-lg-12">
  <button type="submit" class="btn btn-primary w-100 mb-2" name="btnConversion">
    Convertir le nombre</button>
  </div>
   </div>
                  <?php
                  if(isset($_POST['btnConversion']))
                  {
                      $first_temp_type_name=$_POST['depart'];
                      $second_temp_type_name=$_POST['fin'];
                      $valeurSaisie=$_POST['valeurSaisie'];

                      //Fahrenheit to celsius and kelvin
    if ($first_temp_type_name=='fahrenheit')
    {
        if ($second_temp_type_name=='celsius')
        {
            $celsius=fahrenheit_vs_celsius($valeurSaisie);
            echo "$valeurSaisie Fahrenheit = $celsius Celsius";
        }  elseif ($second_temp_type_name=='kelvin')
        {
            $kelvin=fahrenheit_vs_kelvin($valeurSaisie);
            echo "$valeurSaisie Fahrenheit = $kelvin Kelvin";
        }  else
        {
            echo "$valeurSaisie Fahrenheit";
        }
    }
    //Celsius to fahrenheit and kelvin
    if ($first_temp_type_name=='celsius')
    {
        if ($second_temp_type_name=='fahrenheit')
        {
```

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```
            $fahrenheit=celsius_vs_fahrenheit($valeurSaisie);
        echo "$valeurSaisie Celsius  = $fahrenheit Fahrenheit";
        }  elseif ($second_temp_type_name=='kelvin')
        {
            $kelvin=celsius_vs_kelvin($valeurSaisie);
            echo "$valeurSaisie Celsius   = $kelvin Kelvin";
        }  else
        {
            echo "$valeurSaisie Celsius";
        }
    }
    //Kelvin to fahrenheit and celsius
    if ($first_temp_type_name=='kelvin')
    {
        if ($second_temp_type_name=='fahrenheit')
        {
            $fahrenheit=kelvin_vs_fahrenheit($valeurSaisie);
            echo "$valeurSaisie Kelvin  = $fahrenheit Fahrenheit";
        }  elseif ($second_temp_type_name=='celsius')
        {
            $celsius=kelvin_vs_celsius($valeurSaisie);
            echo "$valeurSaisie Kelvin  = $celsius Celsius";
        }  else
        {
            echo "$valeurSaisie Kelvin";
        }
    }


                    }


                    ?>

</form>
</fieldset>
        </div>
<!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
```

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```
integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"
crossorigin="anonymous"></script>
  </body>
</html>
```

## 4. Exercice 03

1. **Énoncé**
   - Vous pouvez visualiser **l'énoncé de l'activité**
2. **Solution**

```
<?php

function alerte($ch)
{
    echo "<script type=\"text/javascript\"> alert('$ch'); </script>";
    return TRUE;
}
//Utilisation
    if(alerte("Bonjour à tous")) echo "La fonction alerte() fonctionne bien";
    alerte('RAAAAAAAAAAAAAAAAA');
?>
```

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**Sommaire du cours PHP**

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