

```
<?php
class Basket {

    public $_inst_catalogue;
    public $_empty_basket;
    public $_vat_rate;
    public $_number_of_items;
    public $_sub_total;
    public $_vat;
    public $_total;

    public function __construct() {

        $this->_inst_catalogue = new Catalogue();
        $this->_empty_basket = empty($_SESSION['basket']) ? true : false;

        $objBusiness = new Business();
        $this->_vat_rate = $objBusiness->getVatRate();

        $this->noItems();
        $this->subtotal();
        $this->vat();
        $this->total();
    }

    public function noItems() {
        $value = 0;
        if (!$this->_empty_basket) {
            foreach($_SESSION['basket'] as $key => $basket) {
                $value += $basket['qty'];
            }
        }
        $this->_number_of_items = $value;
    }

    public function subtotal() {
        $value = 0;
        if (!$this->_empty_basket) {
            foreach($_SESSION['basket'] as $key => $basket) {
                $product = $this->_inst_catalogue->getProduct($key);
                $value += ($basket['qty'] * $product['price']);
            }
        }
        $this->_sub_total = round($value, 2);
    }

    public function vat() {
        $value = 0;
        if (!$this->_empty_basket) {
            $value = ($this->_vat_rate * ($this->_sub_total / 100));
        }
        $this->_vat = round($value, 2);
    }
}
```

```
public function total() {
    $this->_total = round(($this->_sub_total + $this->_vat), 2);
}
```

```
public static function activeButton($sess_id) {
    if (isset($_SESSION['basket'][$sess_id])) {
        $id = 0;
        $label = "Remove from basket";
    } else {
        $id = 1;
        $label = "Add to basket";
    }
    $out = "<a href=\"#\" class=\"add_to_basket\"";
    $out .= $id == 0 ? " red" : null;
    $out .= "\" rel=\"\"";
    $out .= $sess_id."_".$id;
    $out .= ">{$label}</a>";
    return $out;
}
```

```
public function itemTotal($price = null, $qty = null) {
    if (!empty($price) && !empty($qty)) {
        return round(($price * $qty), 2);
    }
}
```

```
public static function removeButton($id = null) {
    if (!empty($id)) {
        if (isset($_SESSION['basket'][$id])) {
            $out = "<a href=\"#\" class=\"remove_basket red\"";
            $out .= "\" rel=\"\"{$id}\">Remove</a>";
            return $out;
        }
    }
}
```