PHP Question 2.3

Without altering the given code:

- Represent a universal remote that can turn on a television and a cable box.
- Represent a remote-control user who can push the `power on` button of a remote control.
- Have a remote-control user push the `power on` button of a tv remote.
- Have the same remote-control user push the `power on` button of a universal remote.

```php
<?php

interface RemoteControl {
  public function powerOn();
}


class Television {
  public function setPower($state) {
    // Truncated Code
  }
}


class CableBox {
  public function setPower($state) {
    // Truncated Code
  }
}


class TVRemote implements RemoteControl
{
  private $tv;

  public function __construct(Television $tv) {
    $this->tv = $tv;
  }

  public function powerOn() {
    $this->tv->setPower(true);
  }
}
```

PHP Answer 2.3
(Provide your answer below. Use as much space as necessary.)

1.

```php
class UniversalRemote extends TVRemote

{
 private $cableBox;

 public function __construct(CableBox $cableBox) {
  parent::__construct(new Television());
parent::powerOn();
  $this->cableBox = $cableBox;
 }

 public function powerOn() {
   $this->cableBox->setPower(true);
 }
}
```

2.

```php
class User extends TVRemote

{
 public function __construct() {
   $this->tv =new Television();
   parent::__construct($this->tv);
 }

 public function powerOnButton() {
   $this->powerOn();
 }
}
```

3.

```
65              $this->powerOn();
66          }
67      }
68
69      $user = new User();
70      $user->powerOnButton();
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

We're in Matrix.

4.
```php
class User extends TVRemote
{
  public function __construct() {
      $this->tv =new Television();
      parent::__construct($this->tv);
  }

  public function powerOnButton() {
      $this->powerOn();
  }

  public function powerOnUniversalButton(UniversalRemote $universalRemote) {
      $universalRemote->powerOn();
  }
}
```

```php
76
77    $user = new User();
78    $cableBox = new CableBox();
79    $user->powerOnUniversalButton(new UniversalRemote($cableBox));
```

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