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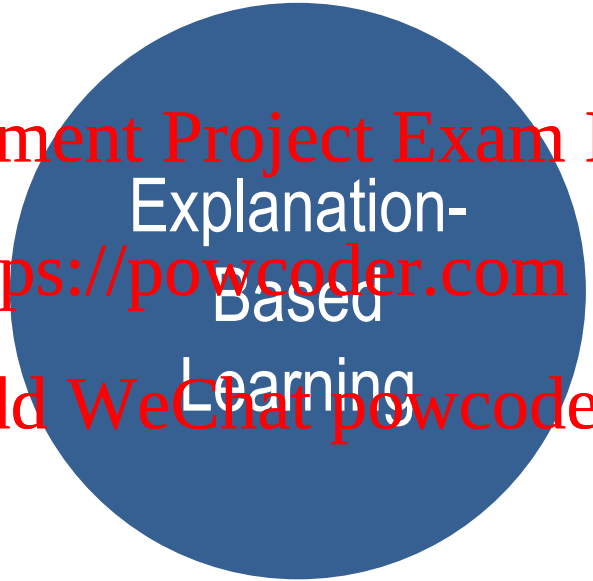
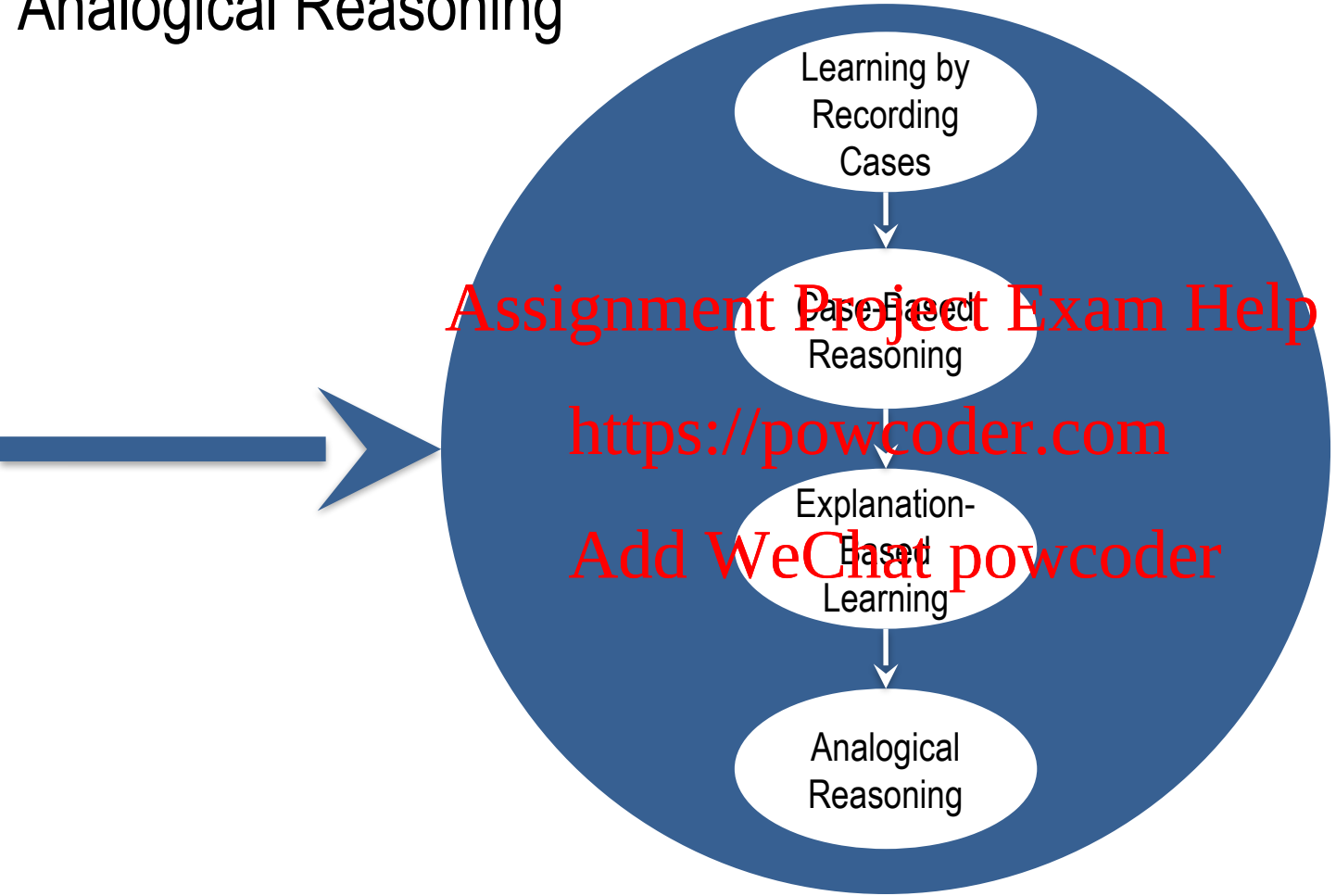


Analogical Reasoning



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Lesson Preview

- Concept space
- Prior knowledge
- Abstraction
- Analogical transfer

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Which of these might be useful for transporting soup from the kitchen to the table?

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A.

B.

C.

D.

A Cup

A cup is an object that is stable and enables drinking.

An Object

This object is light and made of porcelain. It has a decoration, a concavity, and a handle. The bottom is flat.

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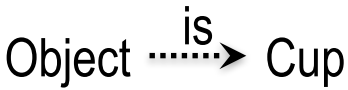
Can we prove this object is a cup?



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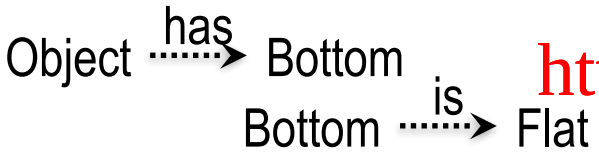

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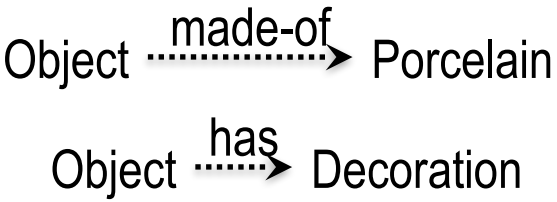

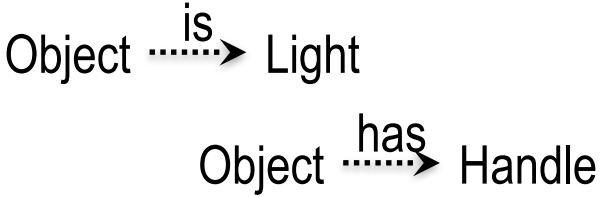

Prior Knowledge

A Brick

The brick is stable because its bottom is flat. A brick is heavy.

A Glass

The glass enables drinking because it carries liquids and is liftable. It is pretty.

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A Briefcase

The briefcase is liftable because it has a handle and is light. It is useful because it is a portable container for papers.

A Bowl

The bowl carries liquids because it has a concavity. The bowl contains cherry soup.

A Brick

The brick is stable because its bottom is flat. A brick is heavy.

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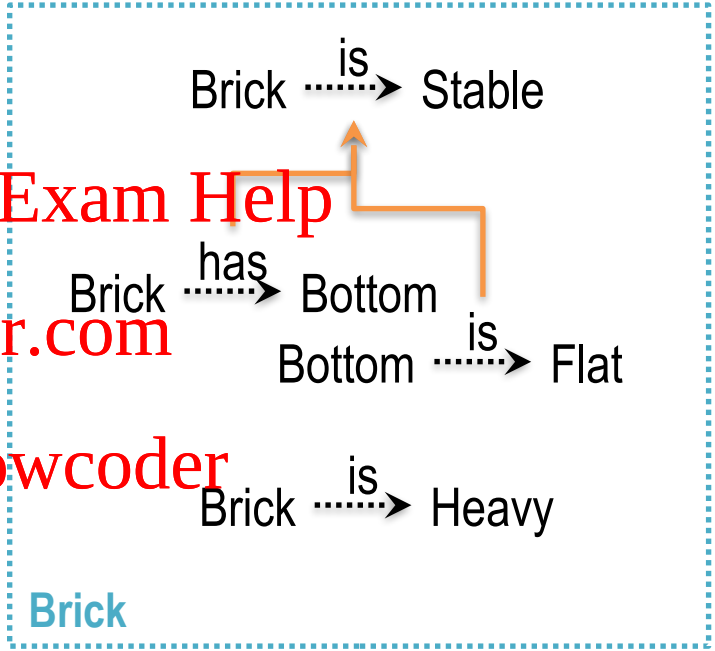

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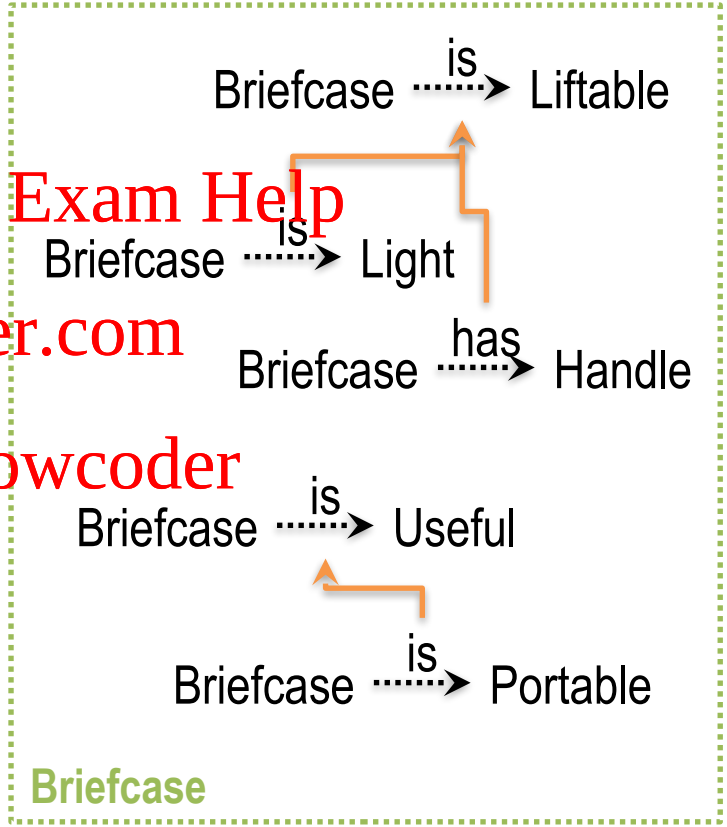

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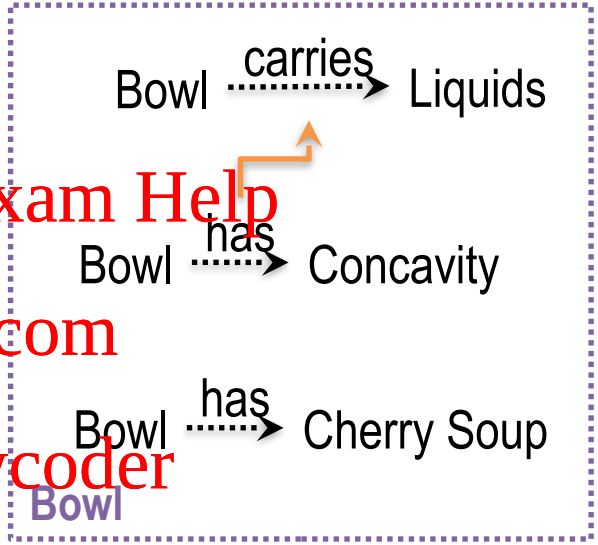

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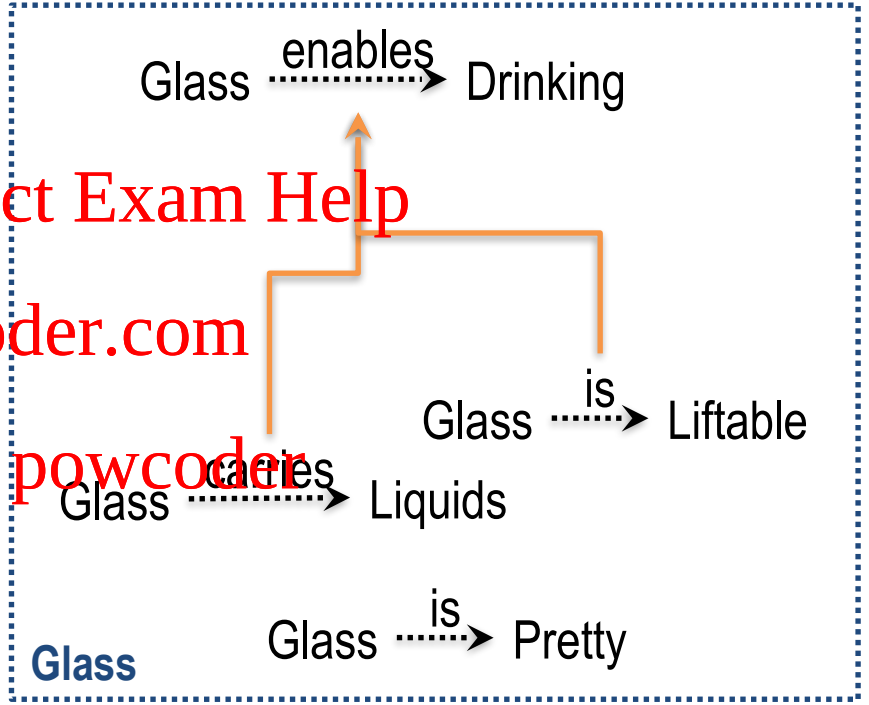

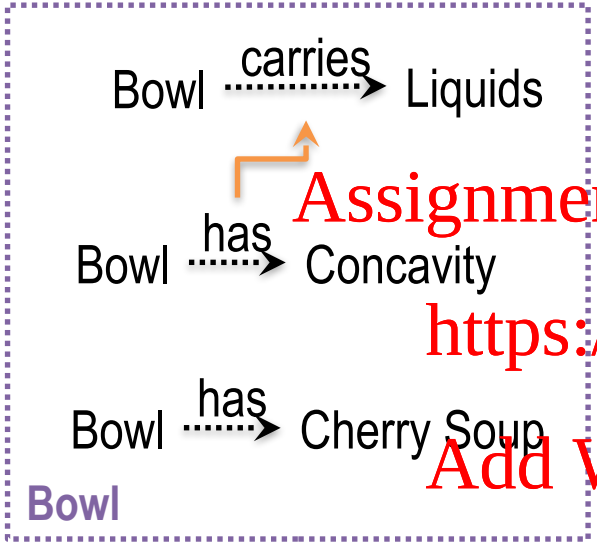

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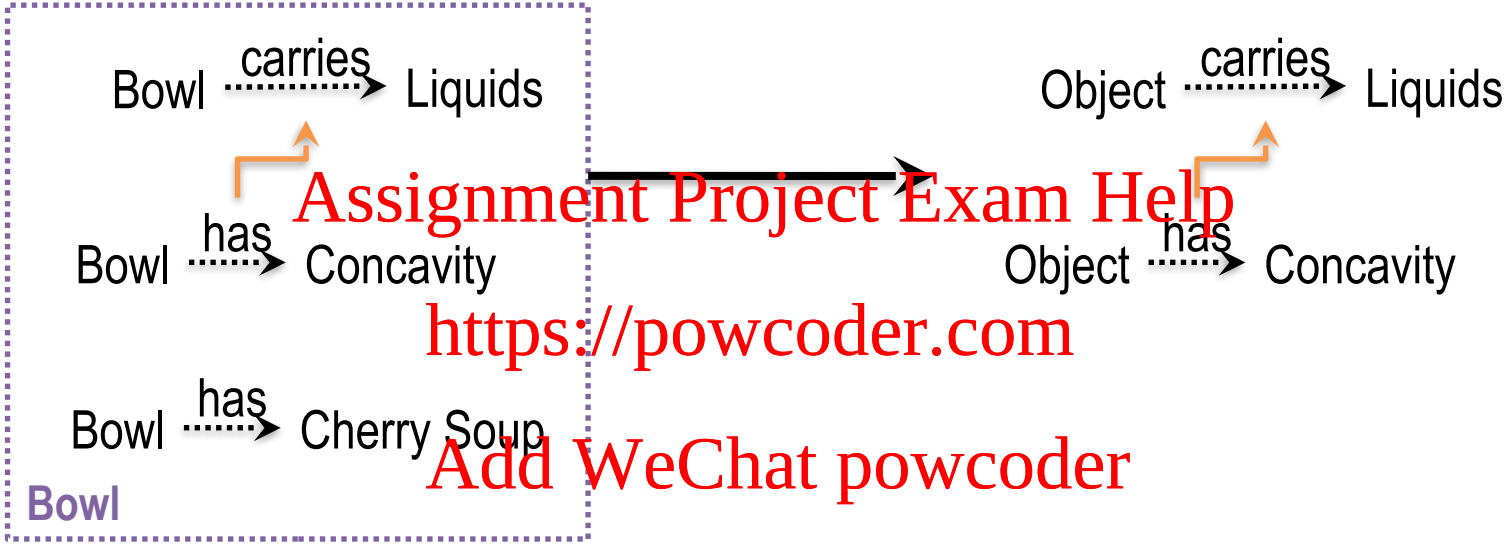

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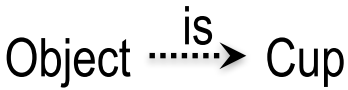

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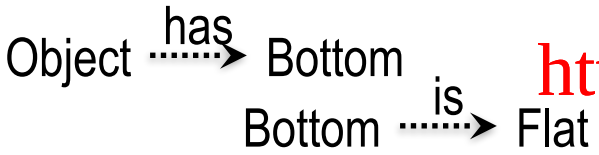

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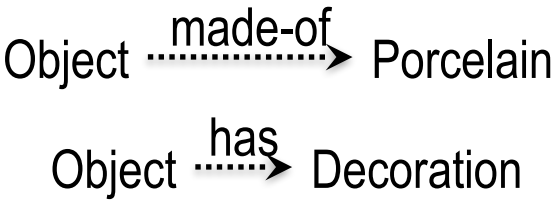

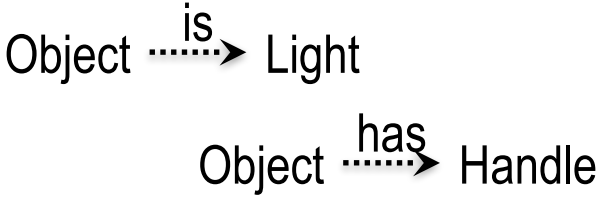

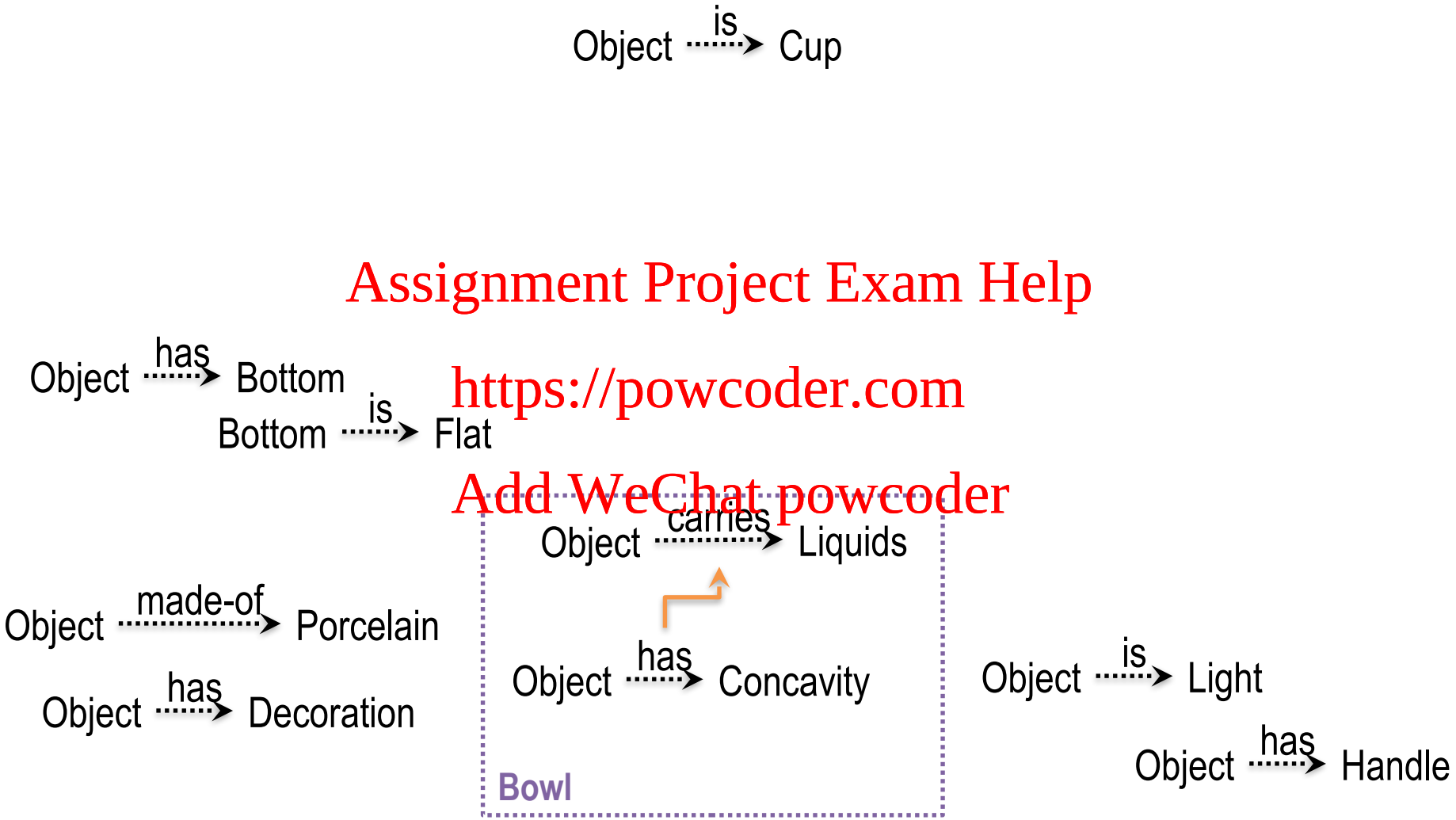
Object is Cup
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Object has Bottom
Bottom is Flat
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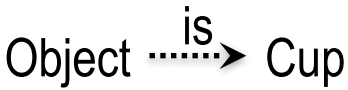
Object carries Liquids
Object made-of Porcelain
Object has Concavity
Object is Light
Object has Decoration
Object has Handle
Bowl



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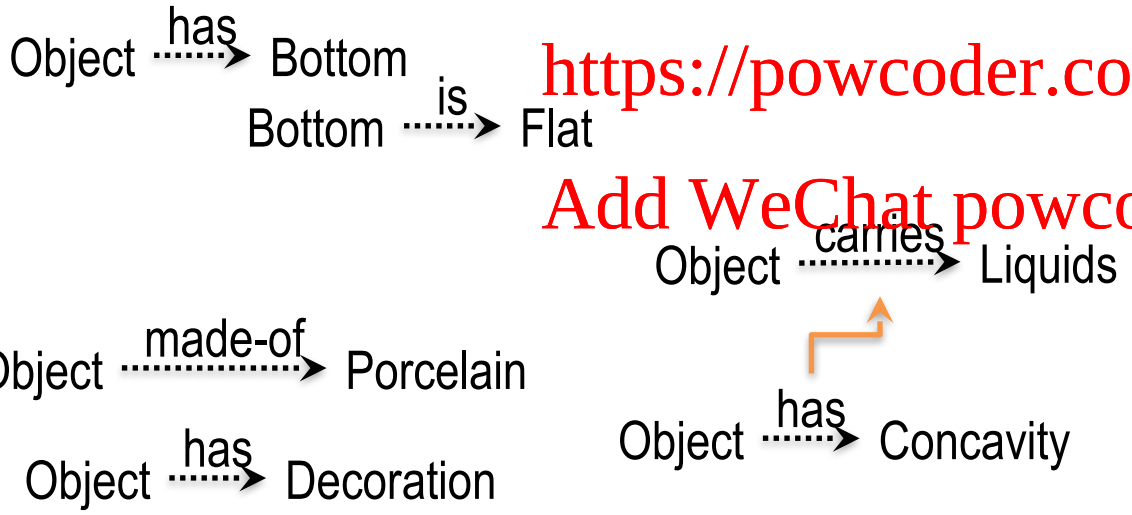

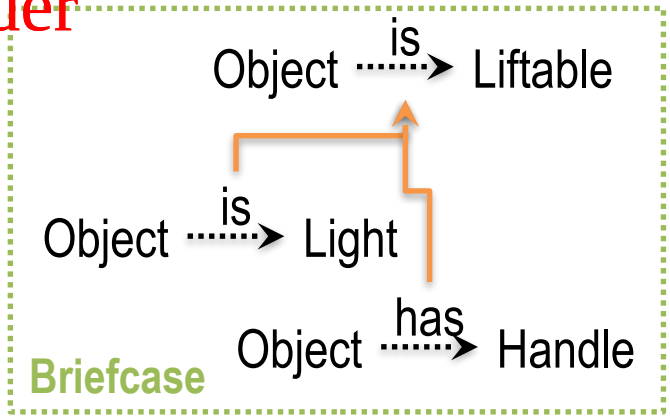

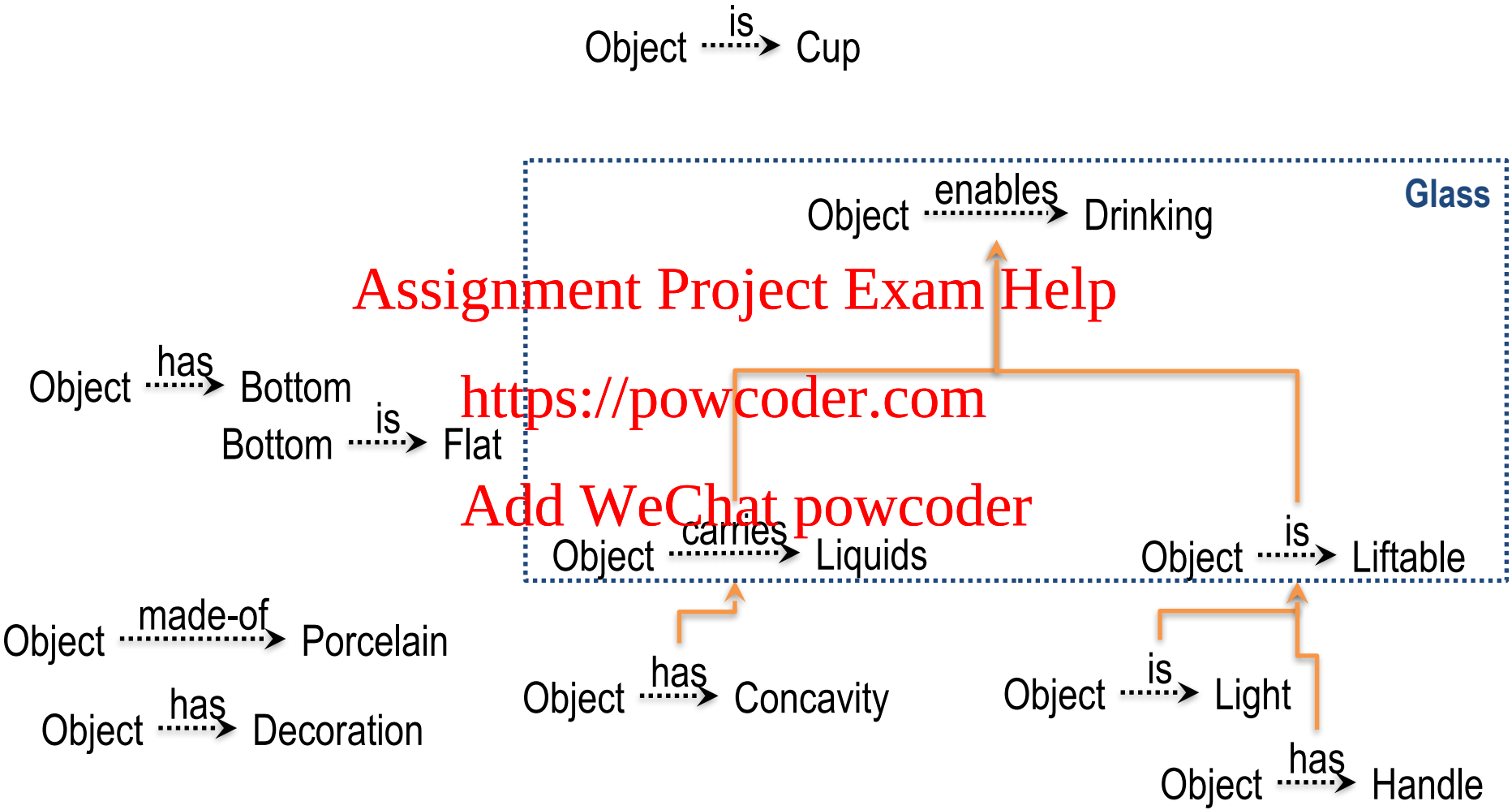
Object is Cup
Glass
Object enables Drinking
Assignment Project Exam Help
Object has Bottom
Bottom is Flat
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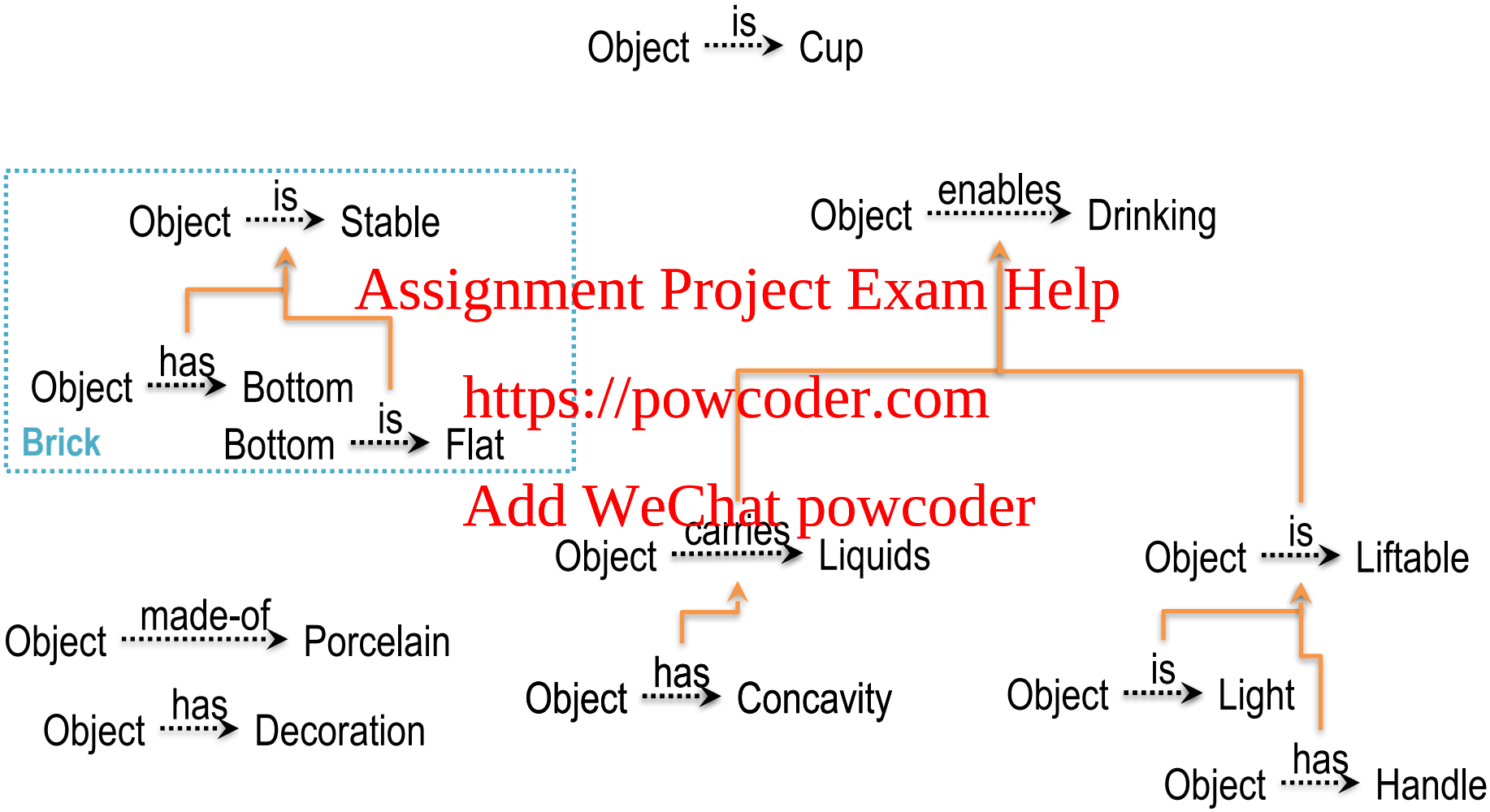
Object carries Liquids
Object is Liftable
Object made-of Porcelain
Object has Concavity
Object is Light
Object has Decoration
Object has Handle


Object is Cup
Object is Stable
Object has Bottom
Brick
Bottom is Flat
Object enables Drinking
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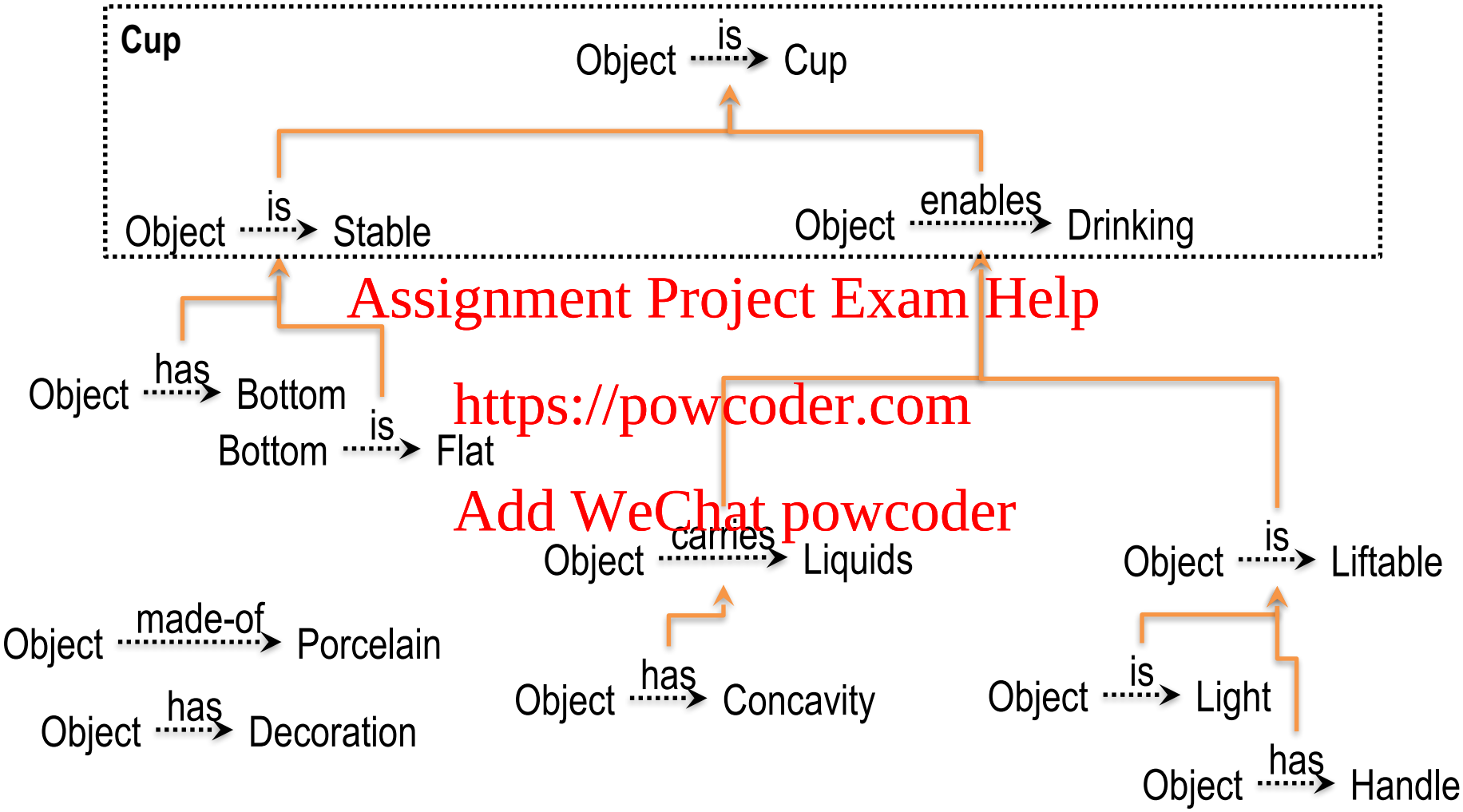
Object carries Liquids
Object is Liftable
Object made-of Porcelain
Object has Concavity
Object is Light
Object has Decoration
Object has Handle


Cup
Object is Cup
Object is Stable
Object enables Drinking
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Object has Bottom
Bottom is Flat
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Object carries Liquids
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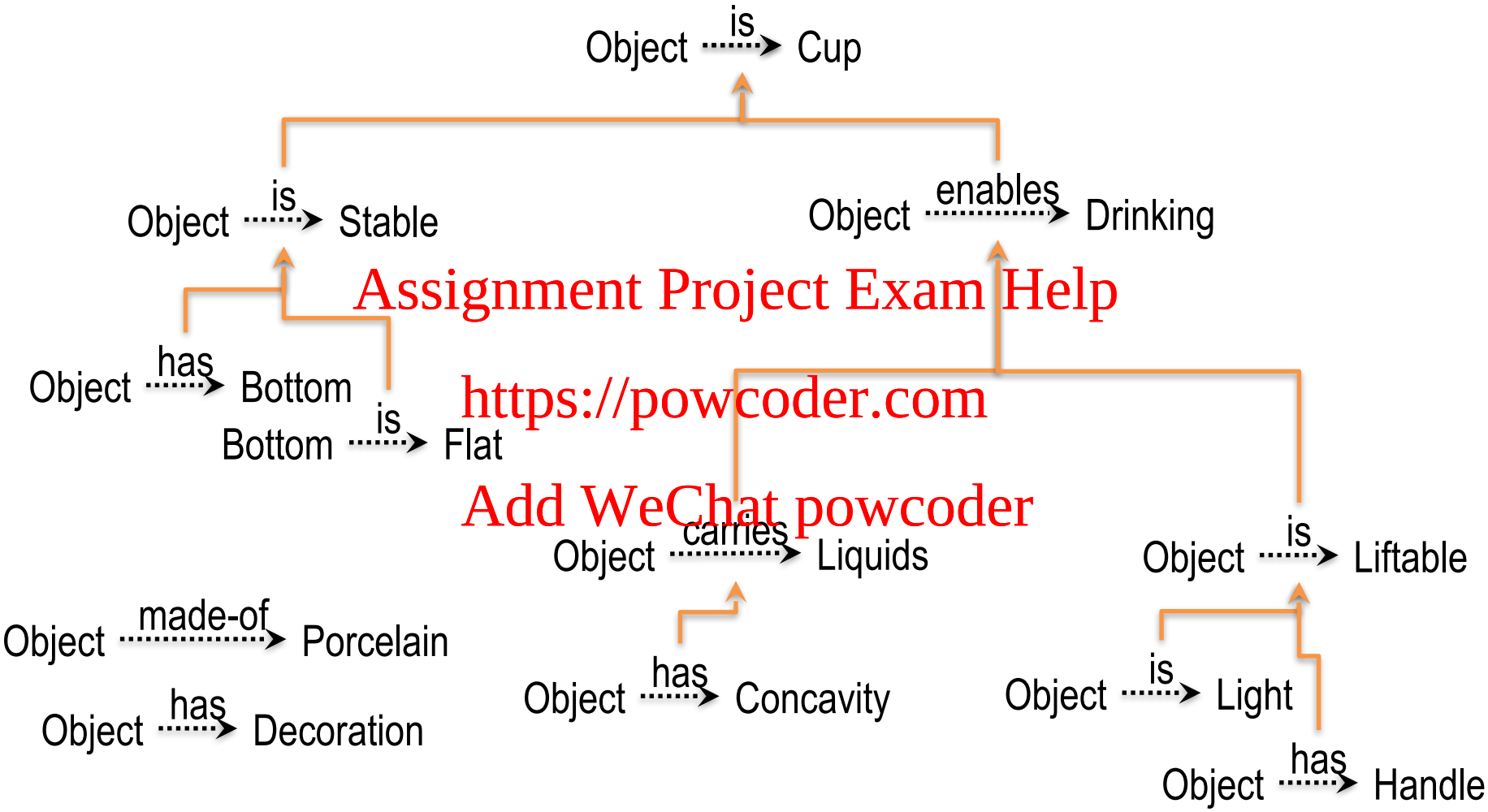

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A Mug

A mug is an object that is stable, enables drinking, and protects against heat.

A Pot

The pot carries liquids because it has a concavity. It limits heat transfer because it has thick sides and is made of clay.

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An Object

This object is light and made of clay. It has a concavity and a handle. The bottom is flat, and the sides are thick.

Can we prove this object is a mug?

A Mug

A mug is an object that is stable, enables drinking, and protects against heat.

A Pot

The pot carries liquids because it has a concavity. It limits heat transfer because it has thick sides and is made of clay.

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An Object

This object is light and made of clay. It has a concavity and a handle. The bottom is flat, and the sides are thick.

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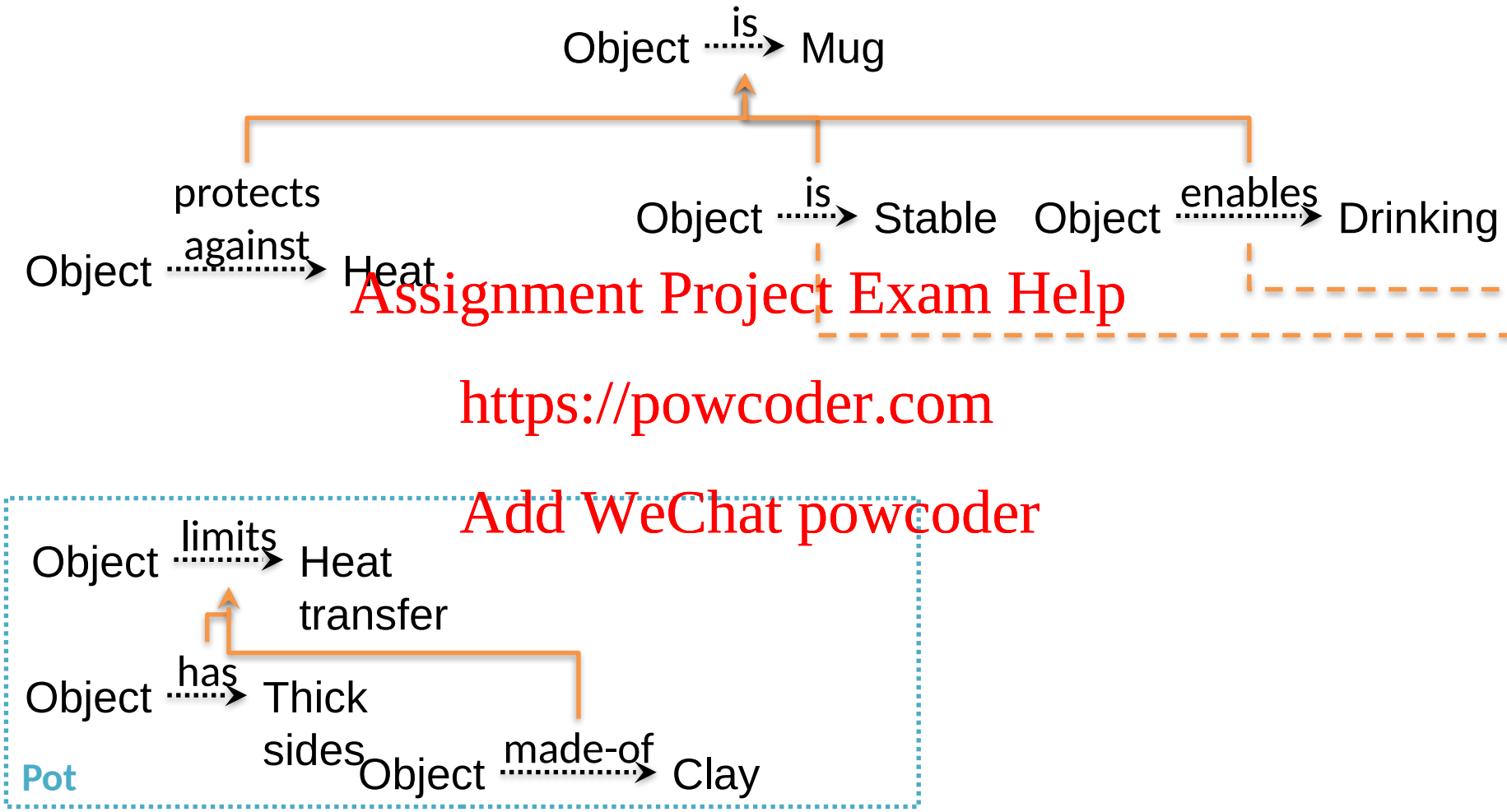
Can we prove this object is a mug?

o Yes o No



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What knowledge would finish our proof that this object is a mug?

- **A Serving Plate**

The serving plate protects against heat because it is made of clay and is shaped like an oval.

- **A Wooden Spoon**

The spoon is long and made of wood. It protects against heat because it has a handle.

- **An Oven Mitt**

The oven mitt is made of cloth. It protects against heat because it limits heat transfer.

- **A Baking Dish**

A baking dish protects against heat because it is made of porcelain and has a handle.

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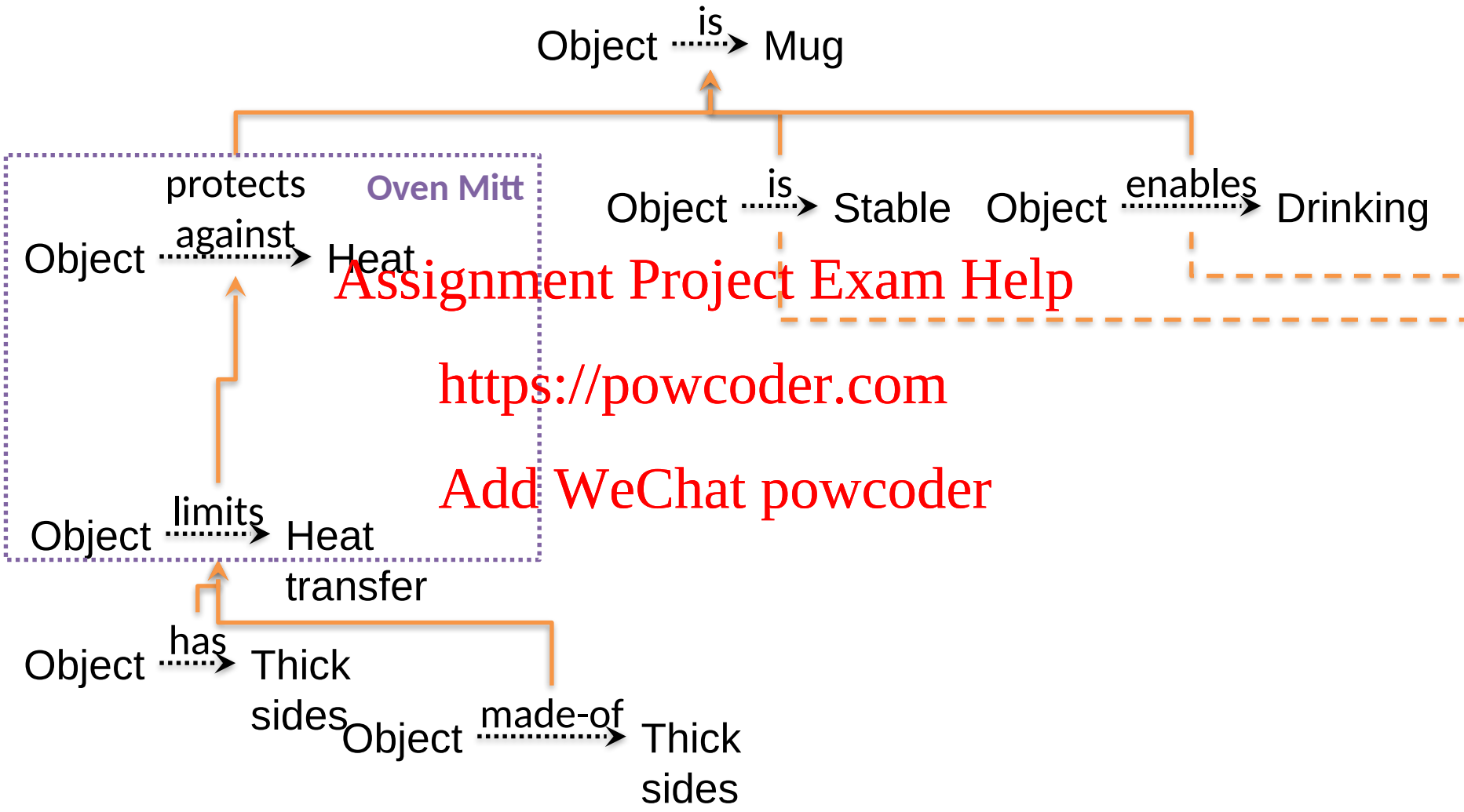

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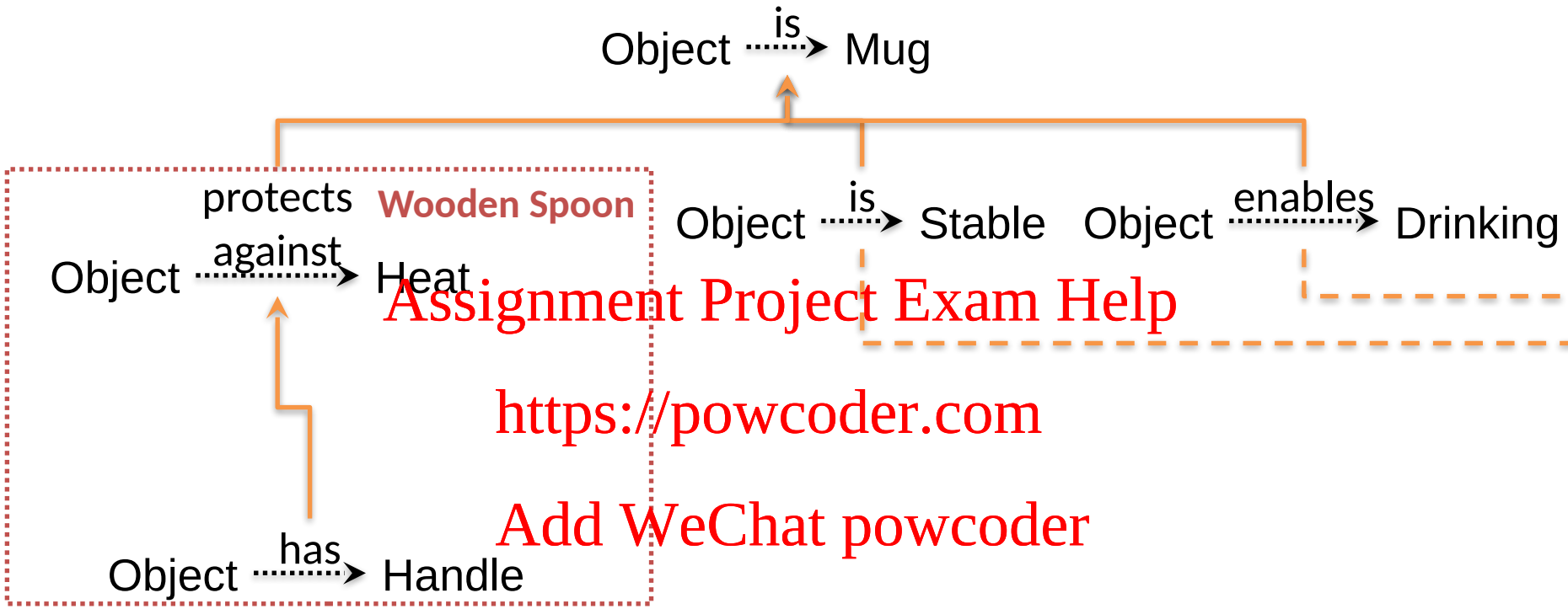

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Assignment

How would you use explanation-based learning to design an agent that could answer Raven's progressive matrices?

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To recap…

- Concept space
- Prior knowledge
- Abstraction & transfer

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