Assignment Project Exam Help

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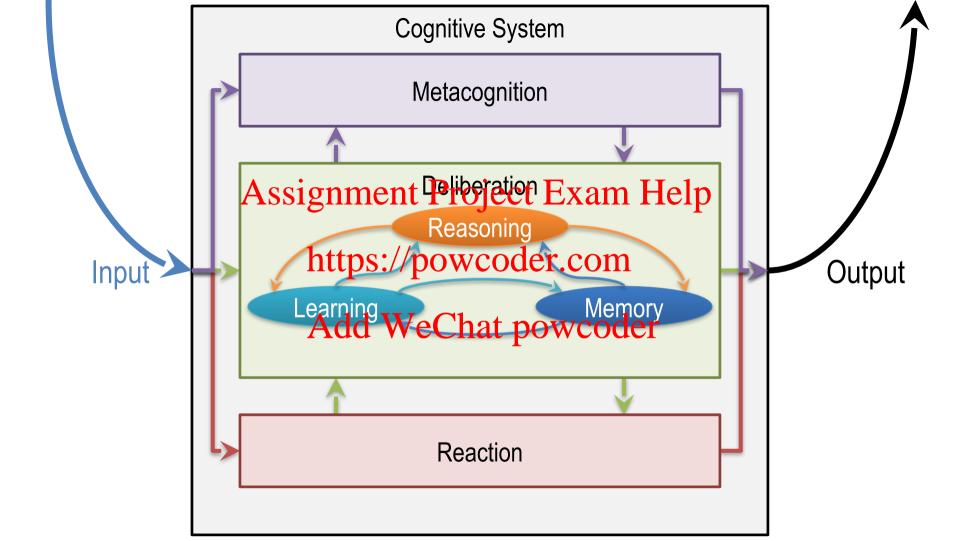
Lesson Preview

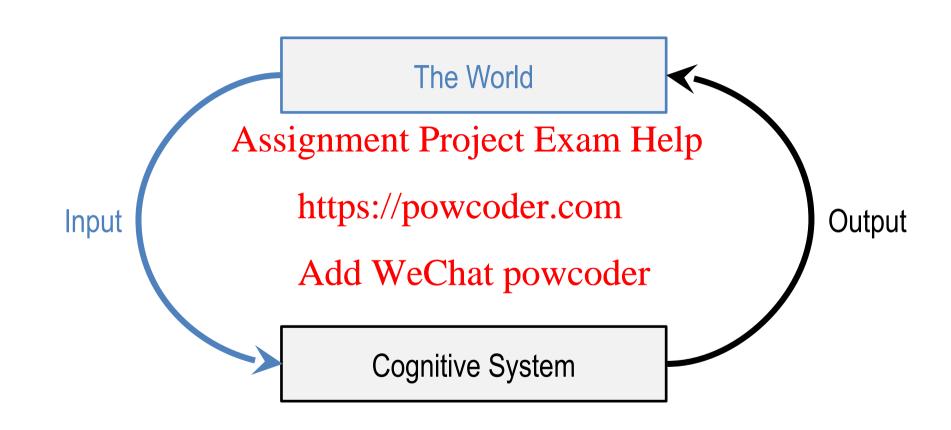
- Major topics revisited
- Principles of KBAI revisited Assignment Project Exam Help
- Modern KBAI research

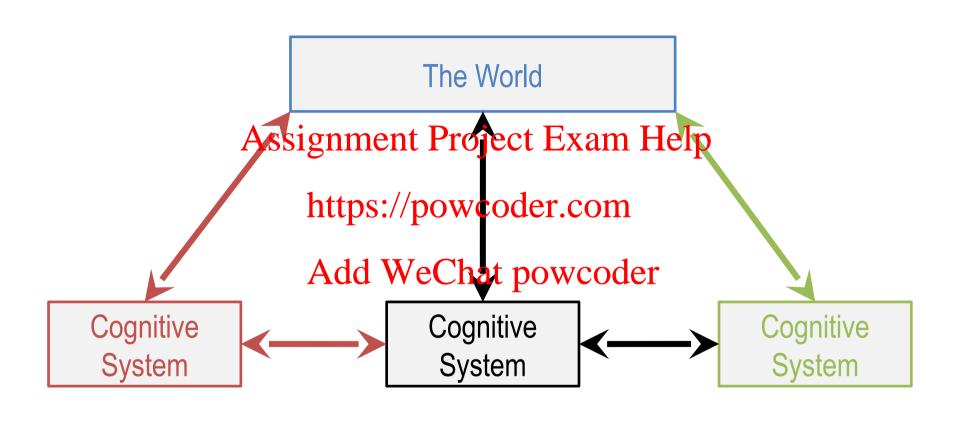
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Final thoughts

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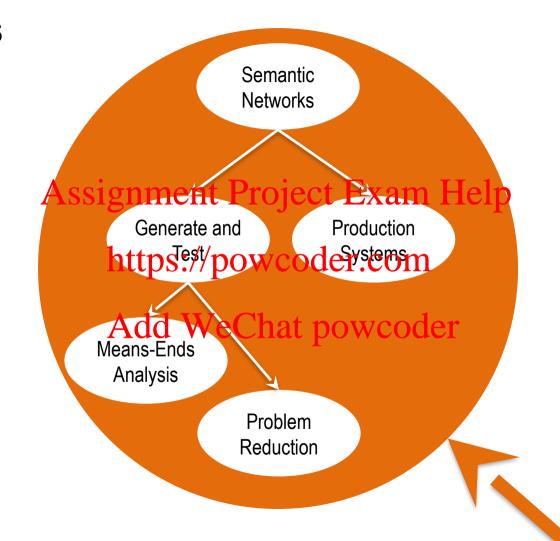




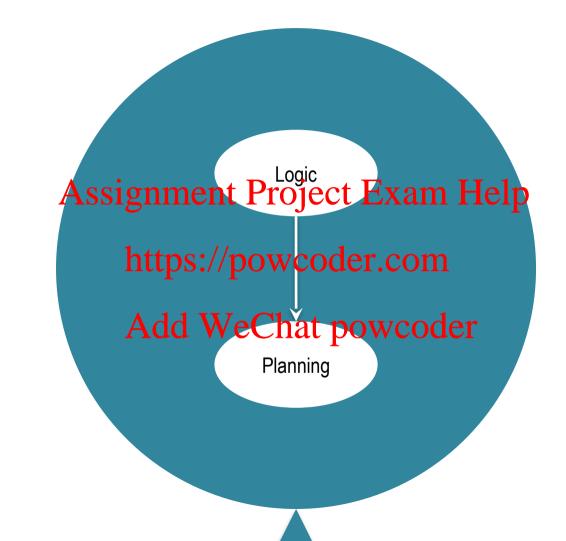


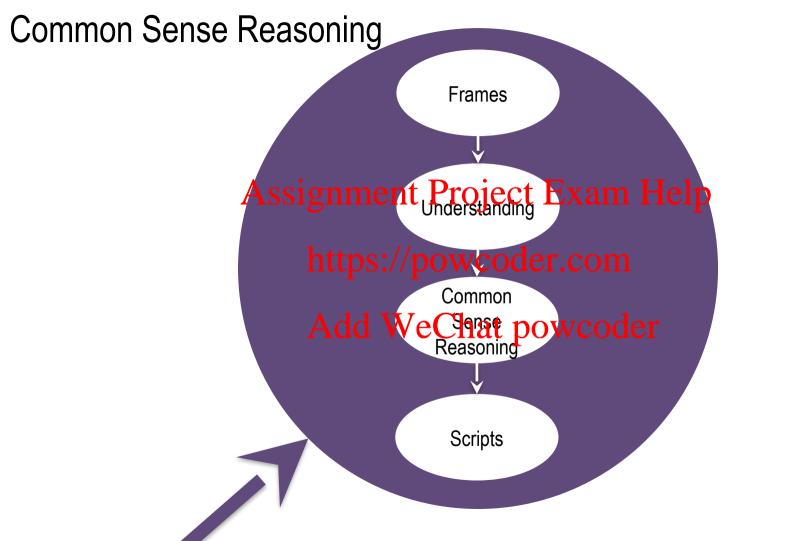


Fundamentals

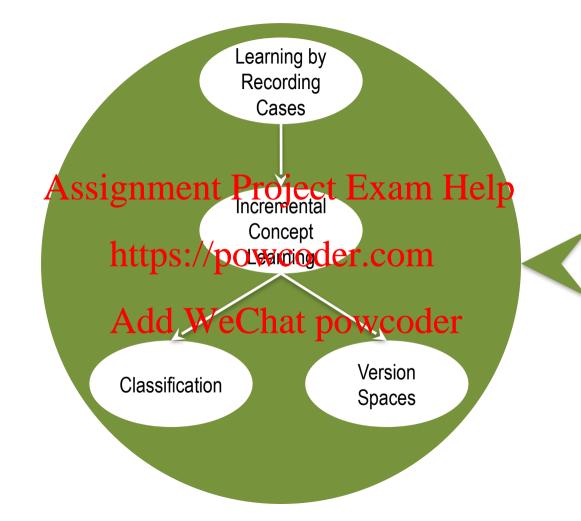


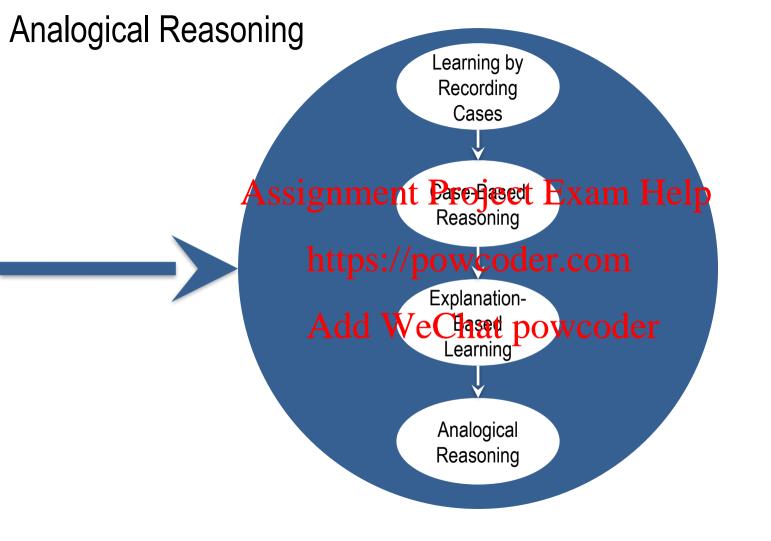
Planning

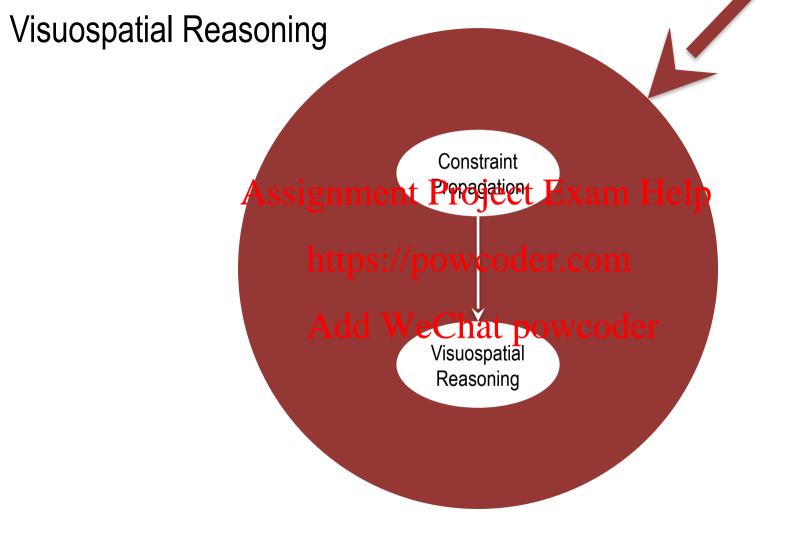




Learning

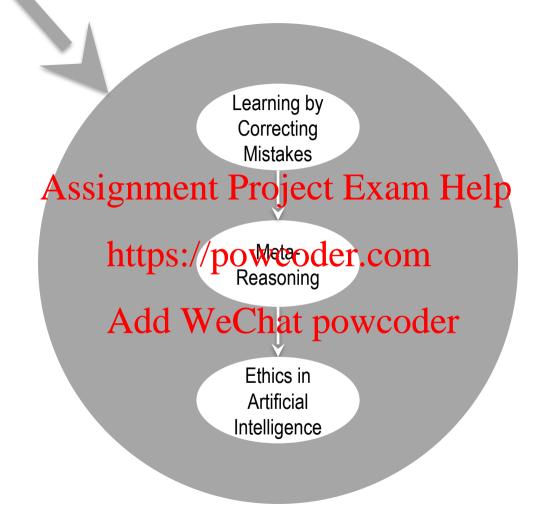


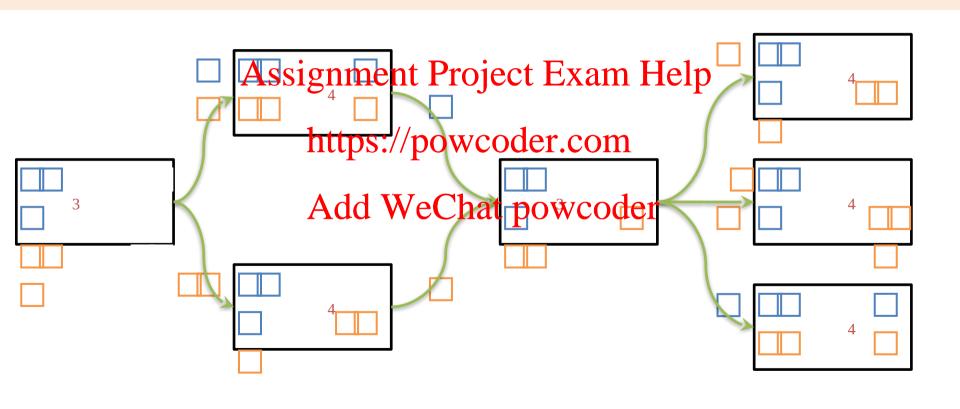




Design & Creativity Configuration Assignment Project Exam Help https://powcoder.com Add WeChat powcoder Creativity

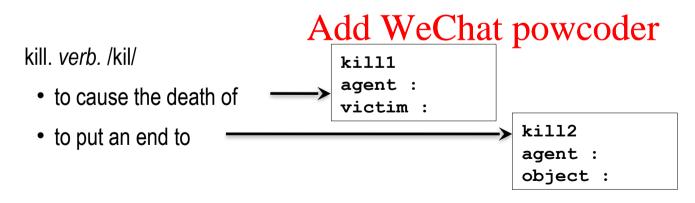
Metacognition



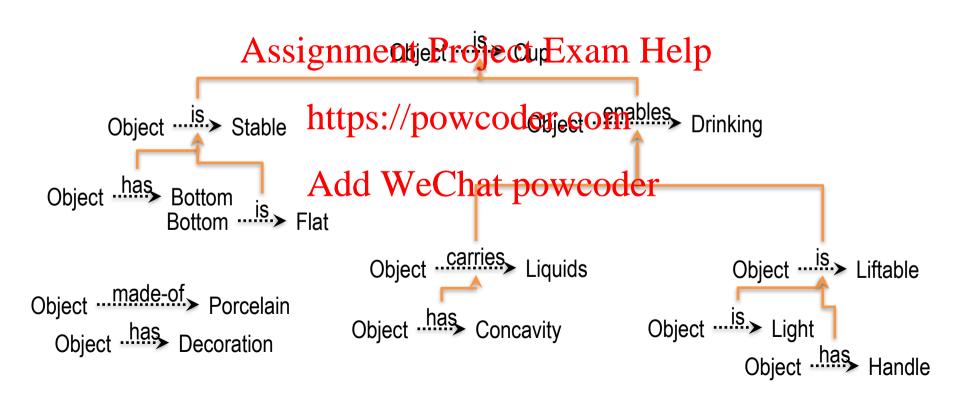


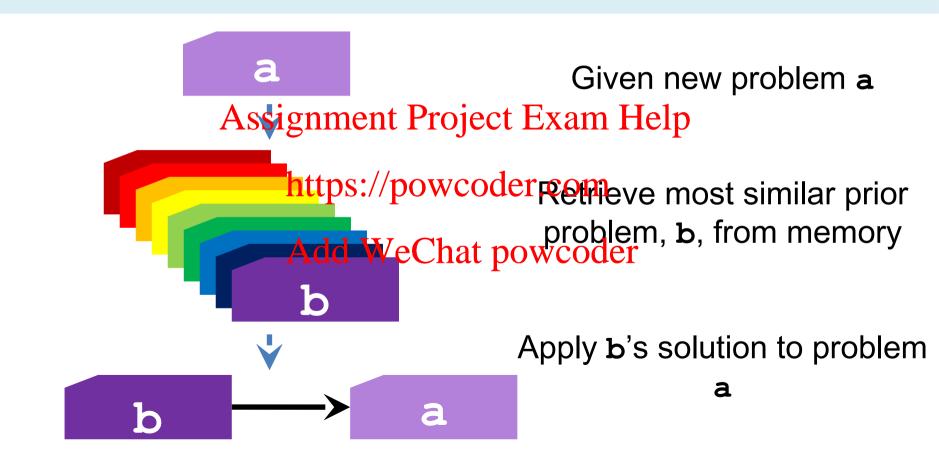
Sentence 1: A serious earthquake killed 25 people in Lawer Slabovia.

Sentence 2: The President of Lower Slabovia killed 25 proposals for earthquake prediction. https://powcoder.com

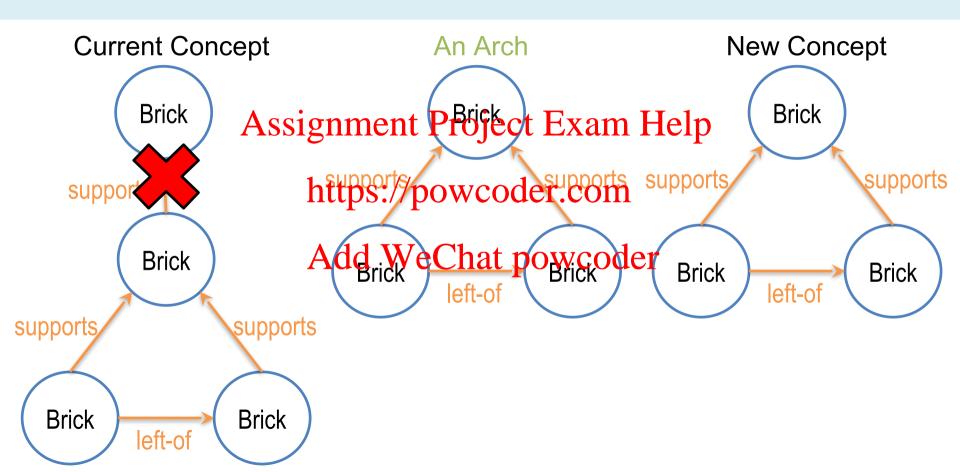


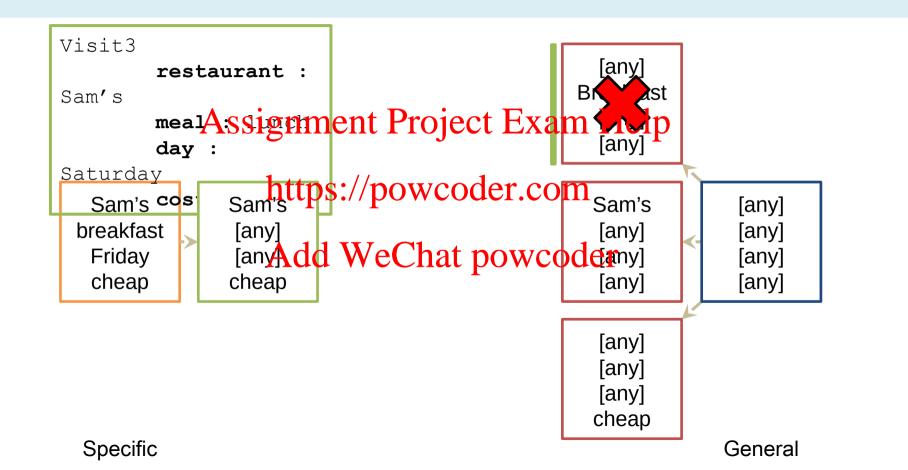
```
S = Ashok; P = Olive Garden; W = Andrew
           Assignment Project Exam Help
Action Frame
                                   Action Frame
                                   lerim move-object ndrew
prim. : move-body part s.//pow
agent : Ashok
                                    object : Andrew
part : body
destination: sittingd WeCha
                                   destination : Ashok
                                   Action Frame
Action Frame
                                    prim. : move-object
prim. : see
                                    agent : Andrew
agent : Andrew
                                    object : menu
object : Ashok
                                    destination : Ashok
```

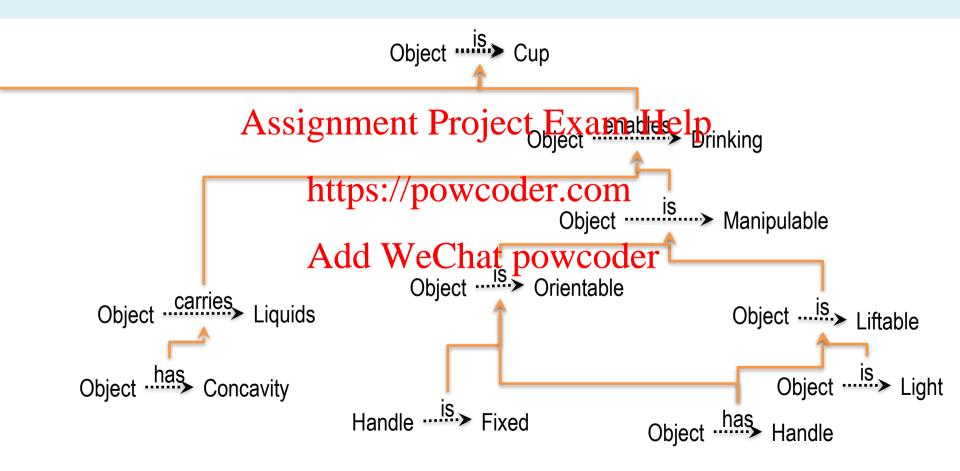




Route	Destination _x	Destination _Y		Is the origin North of 5 _N ?
A	10Assi	gnment Proje	ct Exam H	lelp No
В	1 _E	8 _N Https://powco		
С	10 _E	-4 _N		
D	2 _E	Add We Chat	powcoder	
X	8 _E	2 _N	Yes	
Υ	8 _E	2 _N	(X	East of 2 _E ?
Z	1 _E	9 _N		Yes No A Y



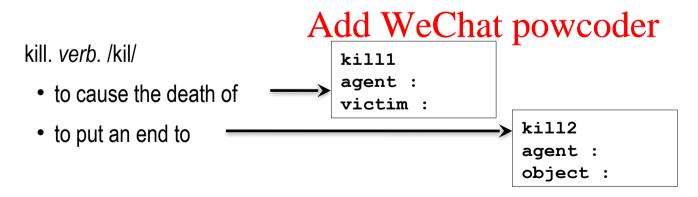




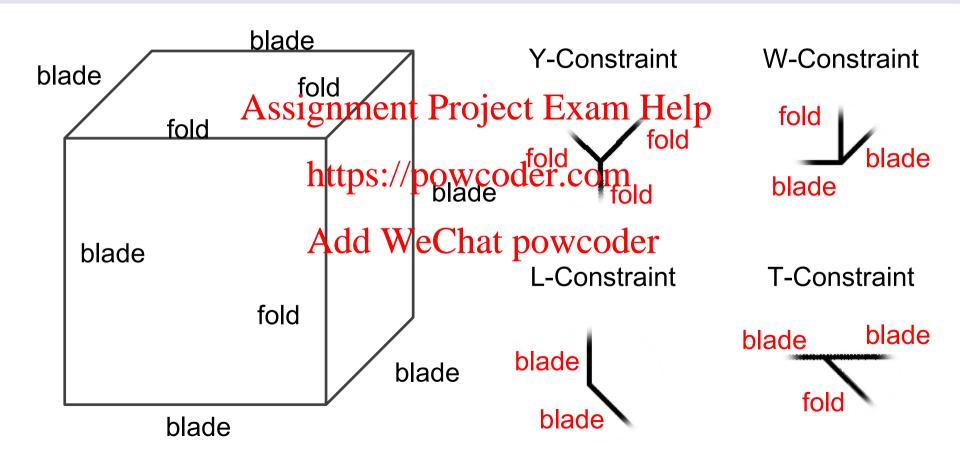
Ate Assignment Project EstamedielpAngela object : lasagna Angela ate lasagna with her dad last night at https://powcoder.com/time: night Add WeChat powcoder : false Garden. object-is : in-subject subject-mood : happy

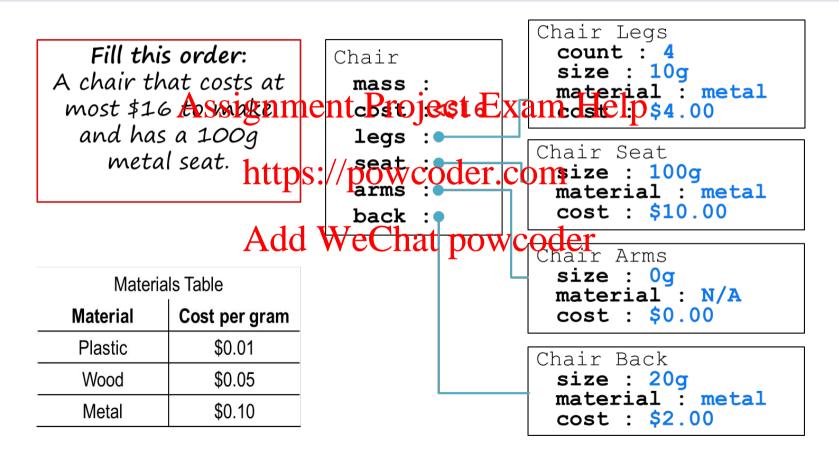
Sentence 1: A serious earthquake killed 25 people in Lawer Slabovia.

Sentence 2: The President of Lower Slabovia killed 25 proposals for earthquake prediction. https://powcoder.com



```
S = Ashok; P = Olive Garden; W = Andrew
Action Fram Assignment Project Exame Help
                                prim. : move-object
prim. : move-body-part
              https://powcoderjeam Andrew Andrew
agent : Ashok
part : body
destination : sitting
                                destination : Ashok
             Add WeChat powcoder
                               Action Frame
Action Frame
                                prim. : move-object
prim. : see
                                agent : Andrew
agent : Andrew
                                object : menu
object : Ashok
                                destination : Ashok
```



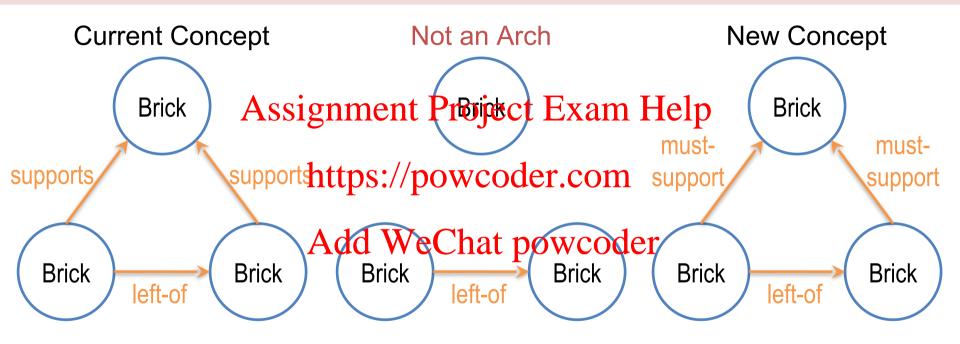


Principle #4: KBAI agents match methods to tasks.

Methods Tasks

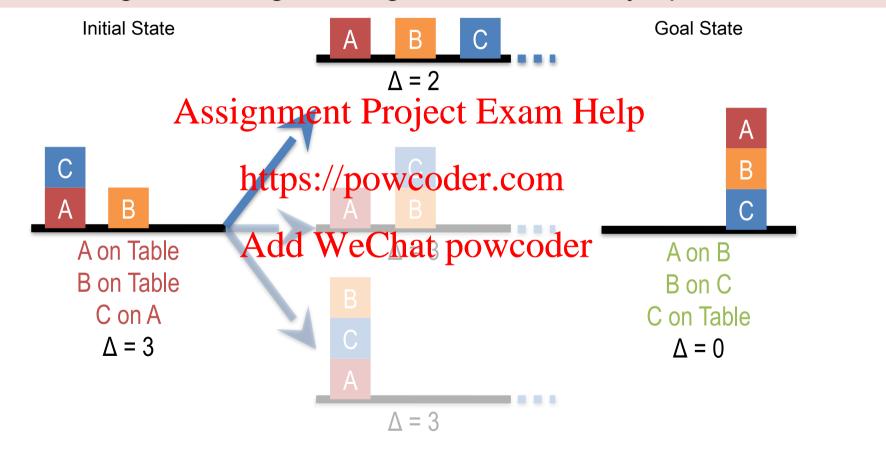
Generate & Test
Assignment Project Exam Help
Means-Ends Analysis Diagnosis
Problem Reduction/powcoder.com Design
Production Systems Meta-Reasoning
Case-Based Reasoning Classification
Analogical Reasoning Systems Thinking

Principle #5: KBAI agents use heuristics to find solutions that are good enough, though not necessarily optimal.

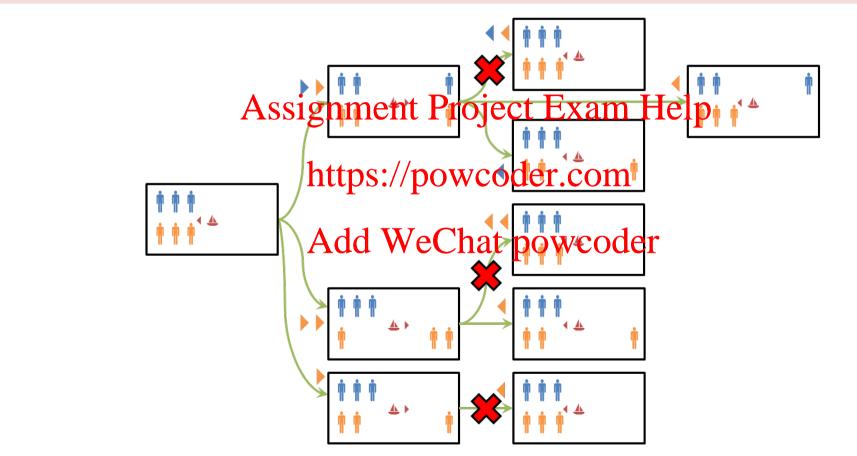


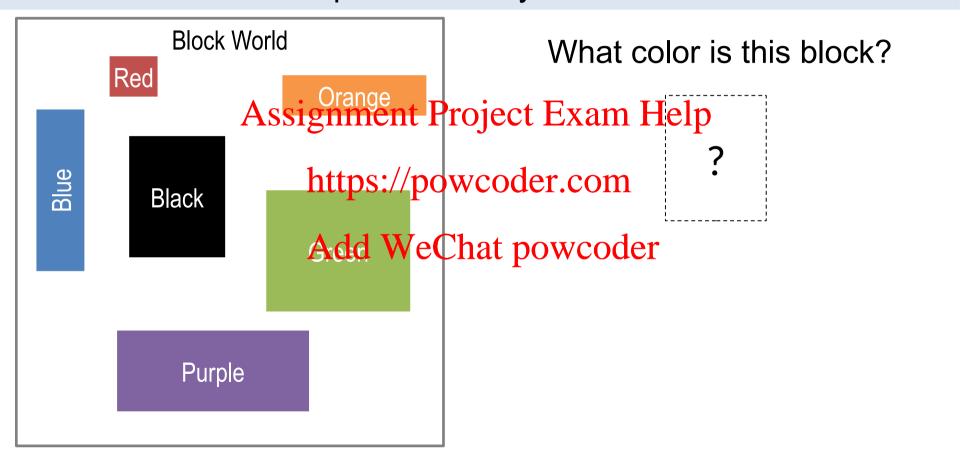
"require-link" heuristic

Principle #5: KBAI agents use heuristics to find solutions that are good enough, though not necessarily optimal.

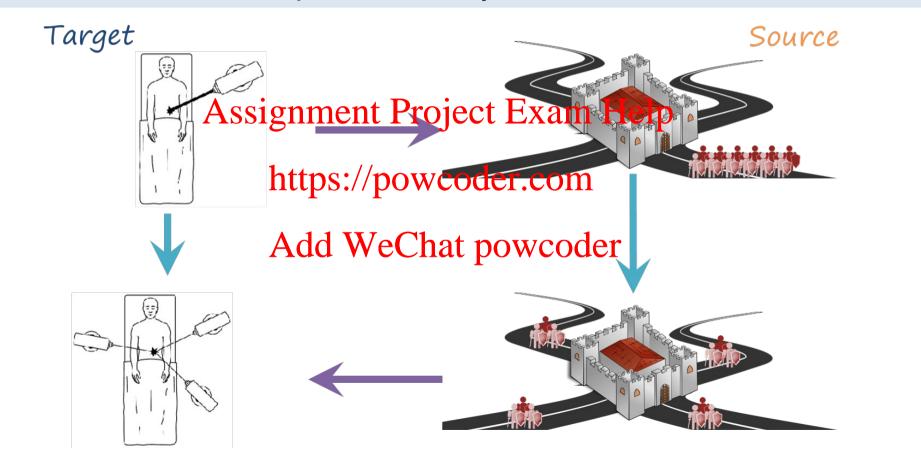


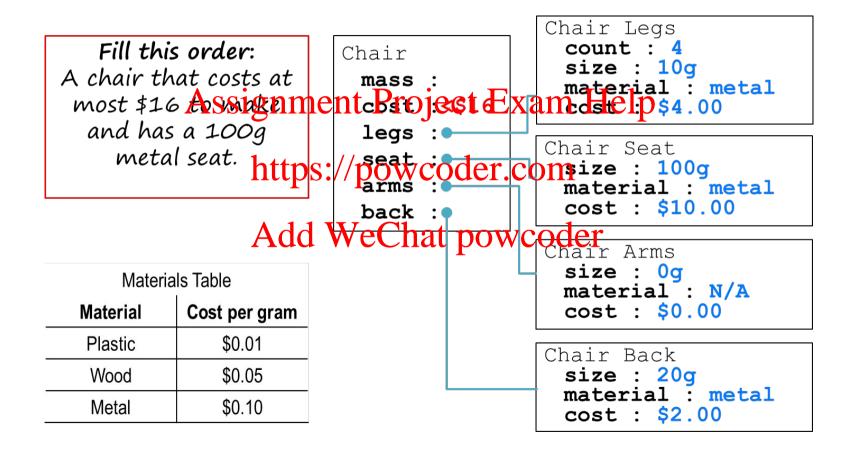
Principle #5: KBAI agents use heuristics to find solutions that are good enough, though not necessarily optimal.











Principle #6: KBAI agents make use of recurring patterns in the problems they solve.

```
S = Ashok; P = Olive Garden; W = Andrew
Action Fram Assignment Project Exame Help
prim. : move-body-part
                                prim. : move-object
               https://powcodergent in Andrew Andrew
agent : Ashok
part : body
destination : sitting
                                destination : Ashok
              Add WeChat powcoder
                               Action Frame
Action Frame
                                prim. : move-object
prim. : see
                                agent : Andrew
agent : Andrew
                                object : menu
object : Ashok
                                destination : Ashok
```

```
inning: 5th
portion: bottom Assignment Project Exam Help
```

game : 131

weather: windy https://powco

runners : 1st, 3rd

outs : 1

batter : Pierzynski

average : .283

bats : left-handed

score : 1-4

goal : pitch

pitch : throw-fast-ball

result : homerun

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Add We had powcoder

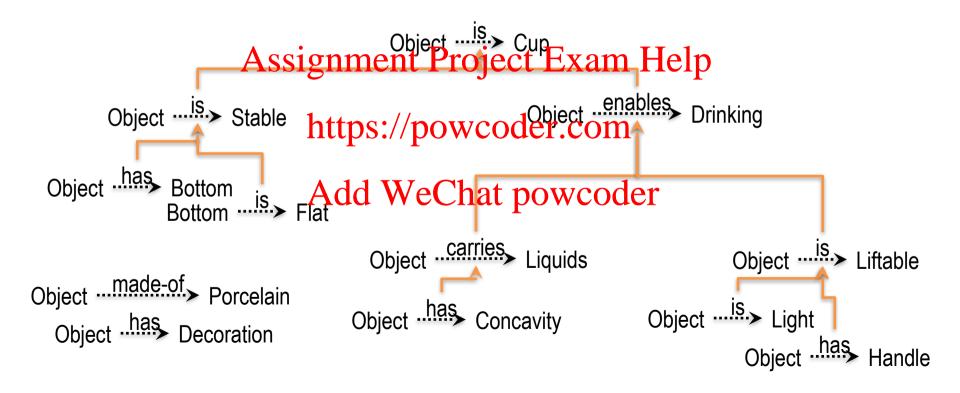
then prefer other operator

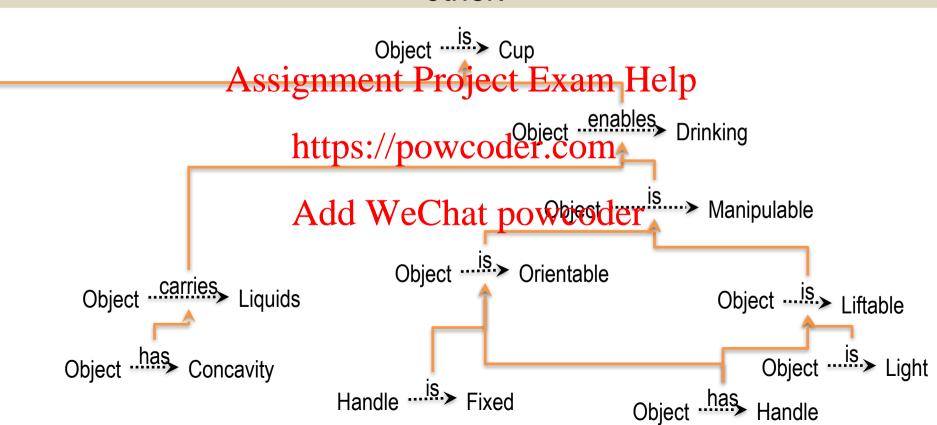
"chunking"

```
If an animal flies and implementation of the panimal) bird, it is a bat.

https://powcoder.combird(animal)
```

```
If Flies(animal) ∧
¬Bird(animal):
Then Bat(Animal)
```





CALO:

"Cognitive Assistant that Learns and Organizes"

VITA:

A computational model of visual thinking in autism, based on RPM.

Cyc and Assignment Project Exam Helmatis:

Knowledgebases of everyday A computational model of common sense knowledge suspense and drama in

Wolfram Alpha: WeChat powcoder stories.

A computational knowledge and answer engine.

DANE:

Support for design based on analogies to natural systems.

What are some things Watson must be able to do to participate in Jeopardy? Write each on its own line Assignment Project Exam Help

https://powcoder.com

Add Weethat powcoder

Search its knowledge base

Decide on an answer

Properly phrase that answer

Fundamental Conundrums of Artificial Intelligence

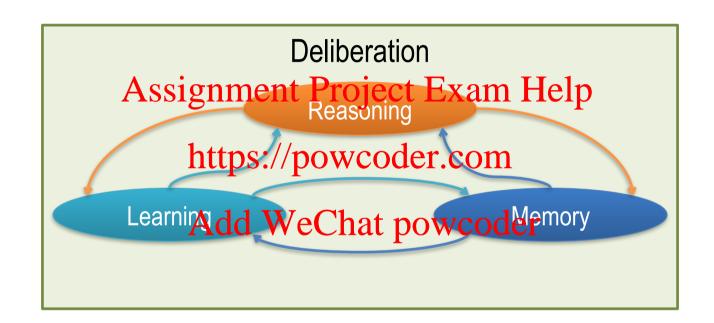
- Intelligent agents have limited resources.
- Computation is local, but problems have global constraints.
- Logic is deductive, but many problems are not.
- The world is dynamic, but knowledge is limited.
 - Problem solving, reasohitto, sin plearing are complex, but explanation and justification are even more complex.

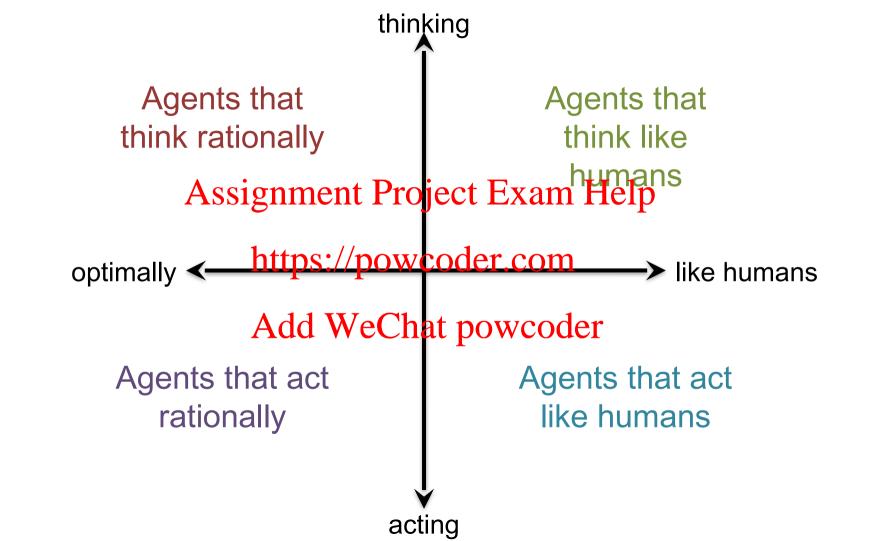
Characteristics of AI Problems

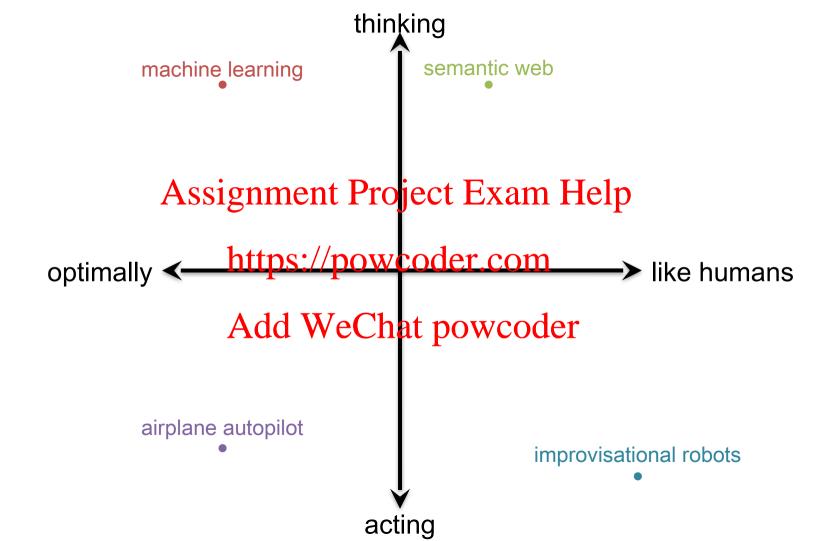
- Knowledge often arrives incrementally.
- Problems exhibit recurring patterns.
- Problems have multiple levels of granularity.
 Assignment Project Exam Help
 Many problems are computationally intractable.
- The world is dynamic, https://pegecoderwealthis static.
- The world is open-ended, but where is limited er

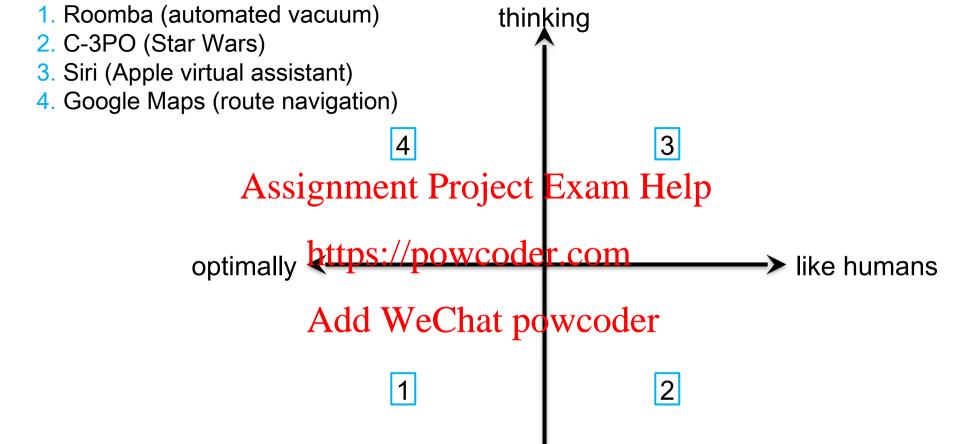
Characteristics of Al Agents

- Agents have limited computing power.
- Agents have limited sensors.
- Agents have limited attention.
- Assignment Project Exam Help
 Computational logic is fundamentally deductive.
- Al agents' knowledge ishtermpleteweatherte the world.









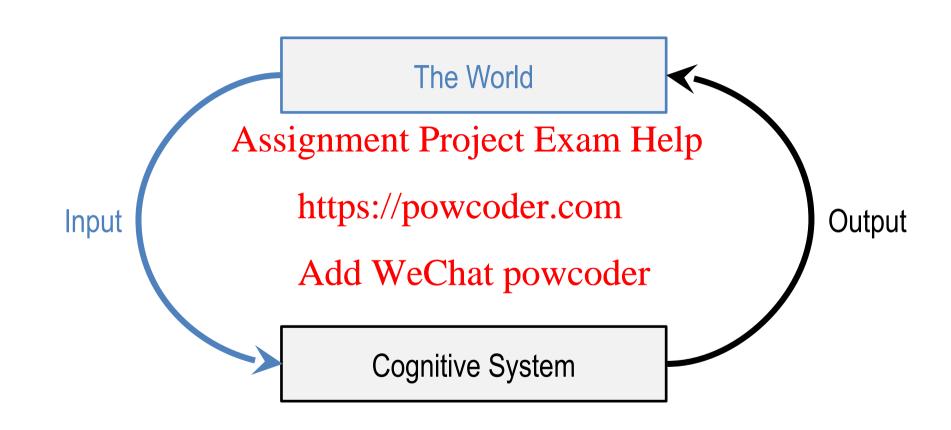
acting

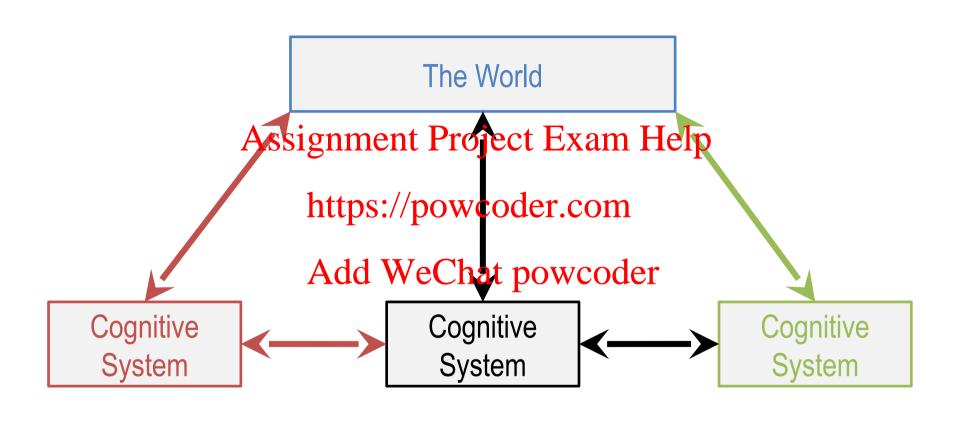
What are cognitive systems?

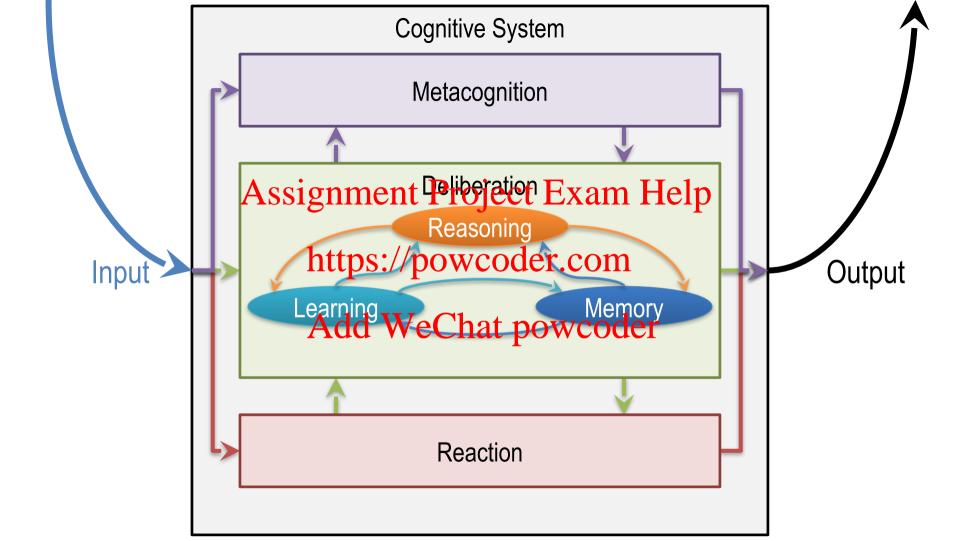
Cognitive: dealing with human-like intelligence.

Systems: multiple interacting components such as learning, Assignment Broiect Exam Help

Cognitive Systems: Psystems that exhibit human-like intelligence through processes like learning, reasoning, and wechat powcoder memory.

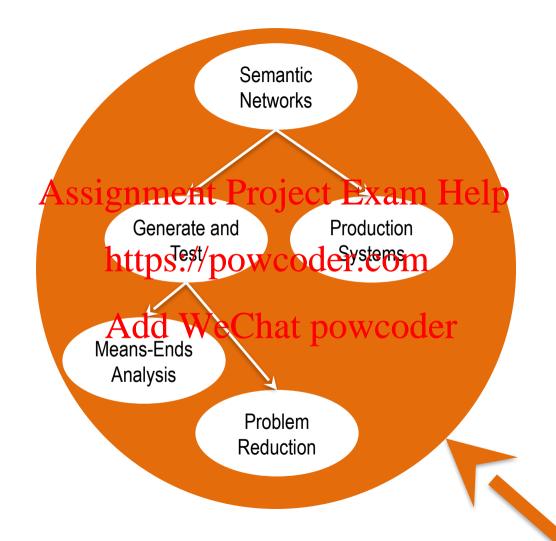






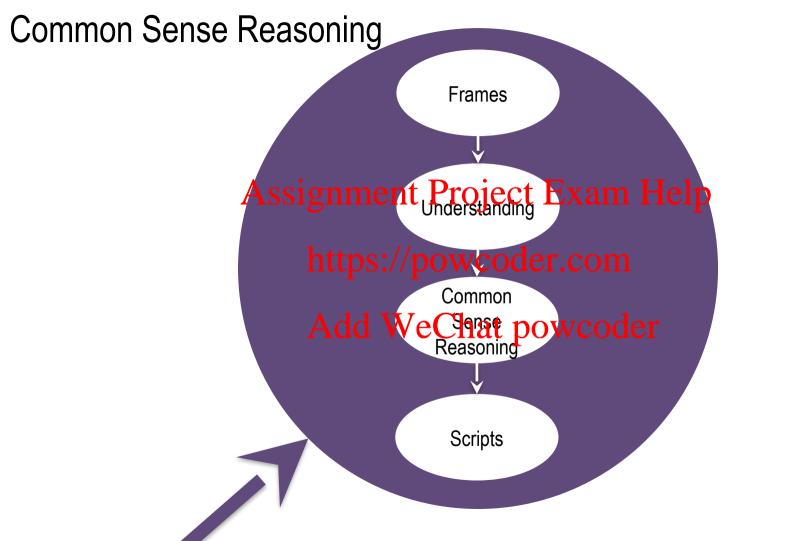


Fundamentals

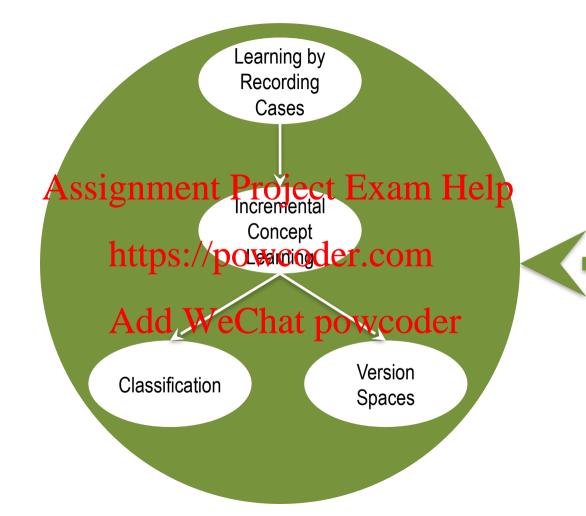


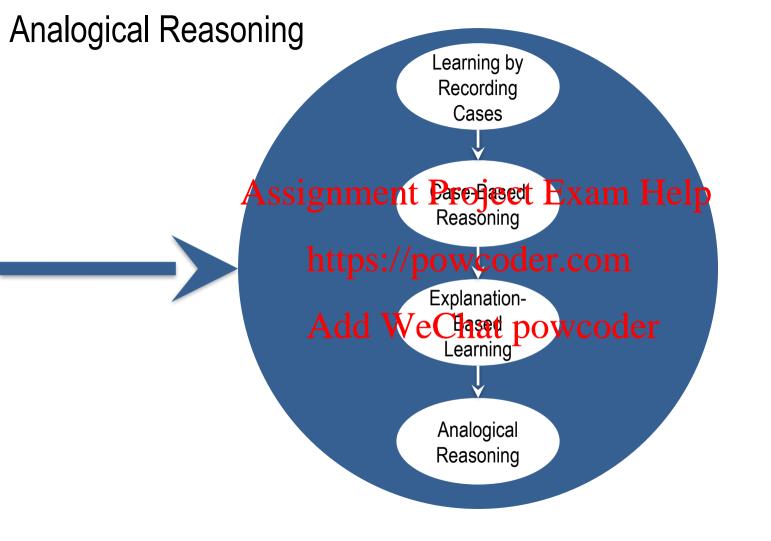
Planning

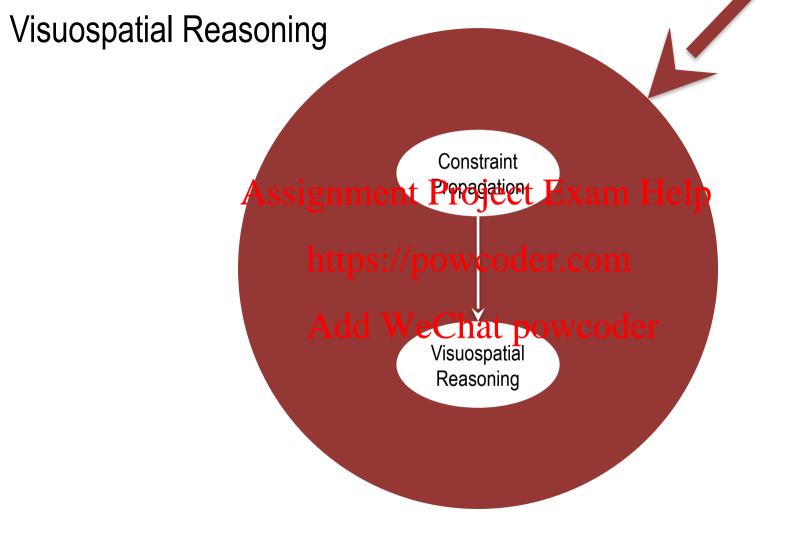




Learning

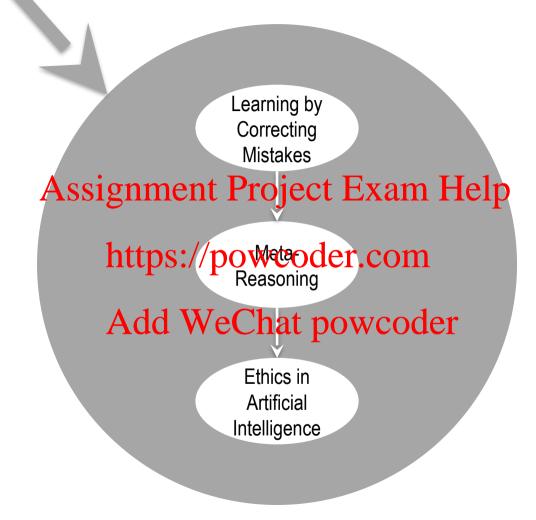


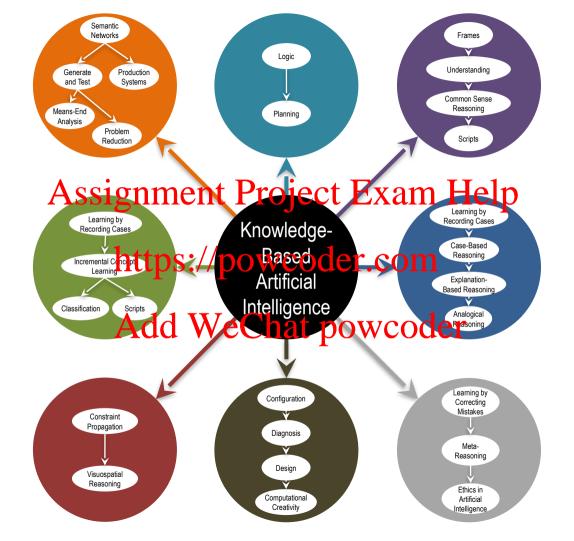




Design & Creativity Configuration Assignment Project Exam Help https://powcoder.com Add WeChat powcoder Creativity

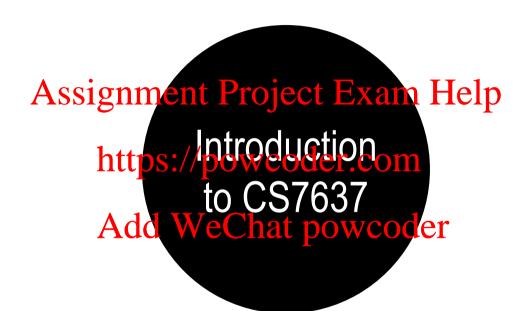
Metacognition





To recap...

- Conundrums and characteristics
- Four schools of Al Assignment Project Exam Help
- What is KBAI?
 https://powcoder.com
- Cognitive Systems
- Topics in AI
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Lesson Preview

- Class goals, outcomes, and strategies
- Class projects and assessments Assignment Project Exam Help
- Computational psychometrics https://powcoder.com
 Raven's Progressive Matrices
- Principles of CS763^{Add} WeChat powcoder

You will learn...

- Core methods of knowledge-based Al
- Tasks addressed by knowledge-based Al Assignment Project Exam Help
- How knowledge-based AI agents use these methods to address these tasksttps://powcoder.com
- The relationship between A Canad puman degnition

You will be able to...

- Design and implement a knowledge-based Al agent
- Use these strategies and agents to address complex, practical problems

 Assignment Project Exam Help
- Use the design and the sult portheder agents to reflect on human cognition
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You will learn by...

- Learning by Example
- Learning by Doing Assignment Project Exam Help
- Project-Based Learning
- Personalization

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- Learning by Reflection WeChat powcoder

You will complete...

- Projects
- Short assignments
 Assignment Project Exam Help
- Tests
- Exercises
- Discussions

https://powcoder.com

Raven's Progressive Matrices

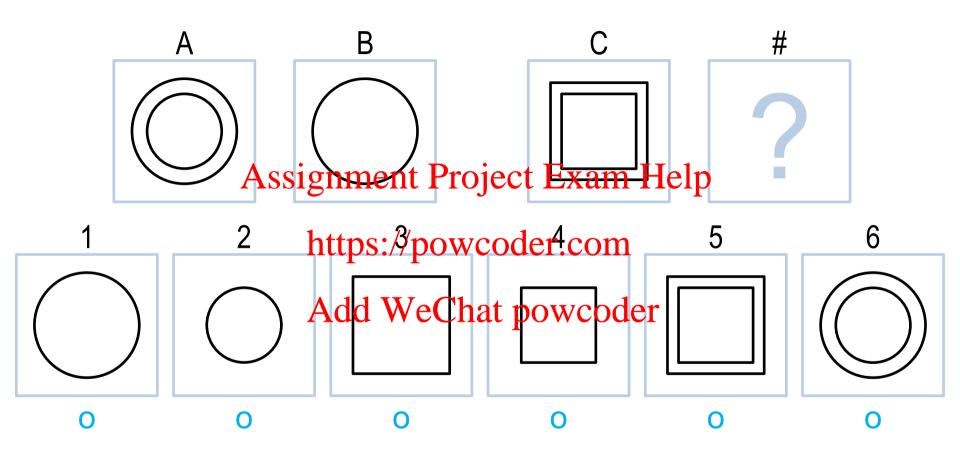
- Test written in the 1930s to examine general intelligence.
- Consists of 60 multiple-choice visual analogy problems. Assignment Project Exam Help
- Unique in that problems are strictly visual.

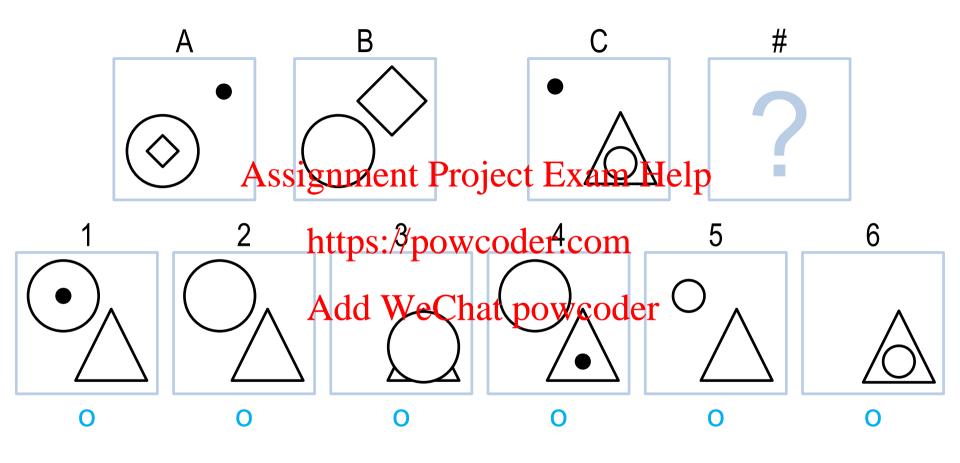
https://powcoder.com
 Widespread usage as a valid test for intelligence.

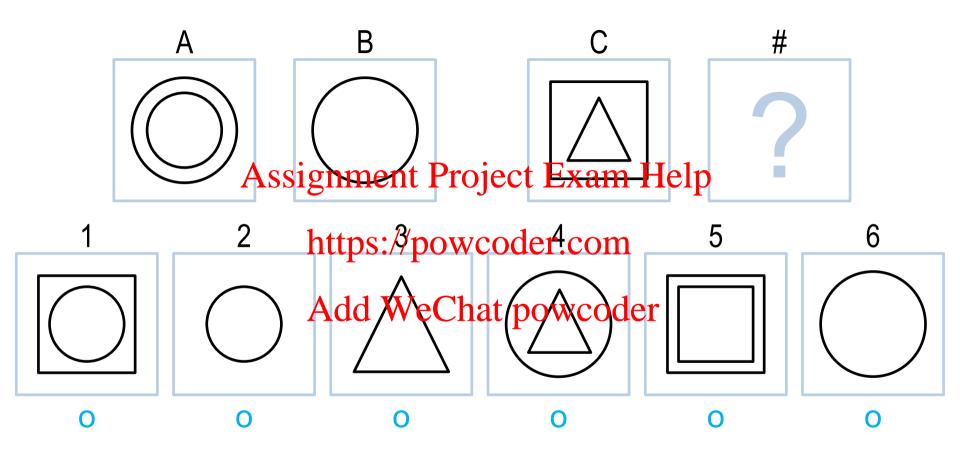
Problems

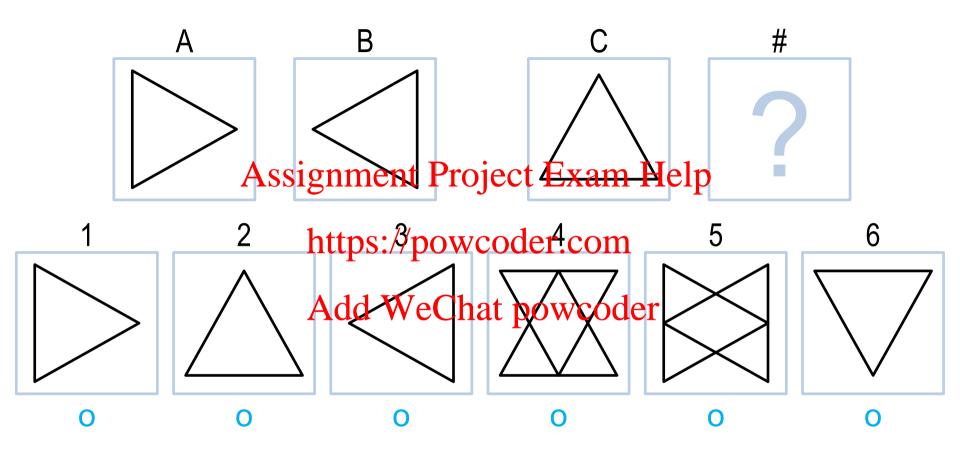
- 2x1 matrix problems
- 2x2 matrix problems Assignment Project Exam Help
- 3x3 matrix problems https://powcoder.com

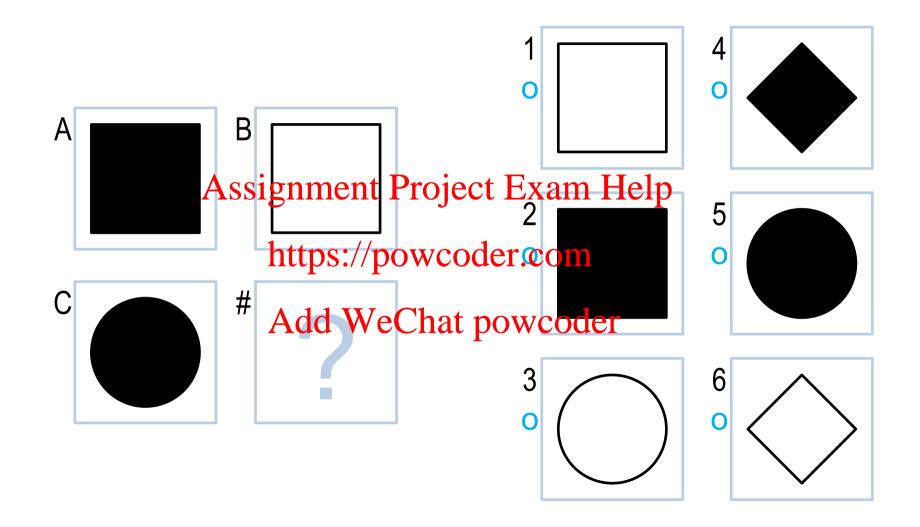
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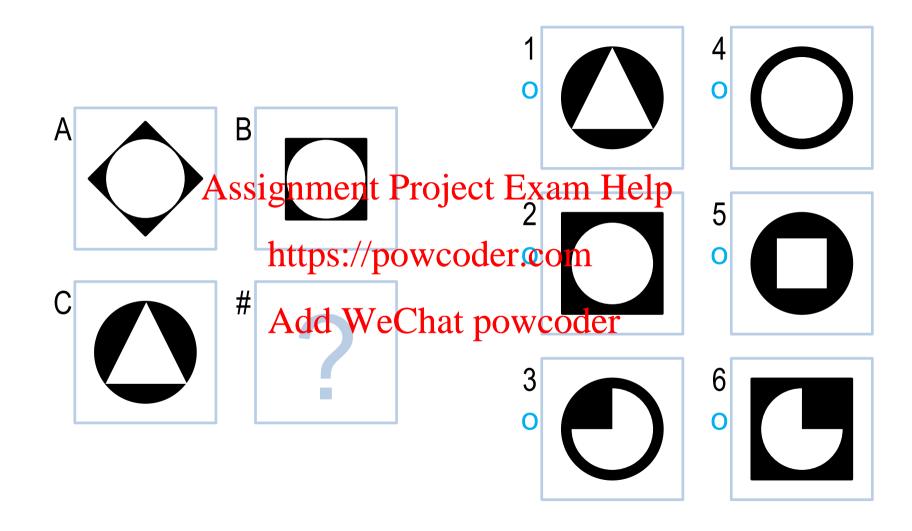


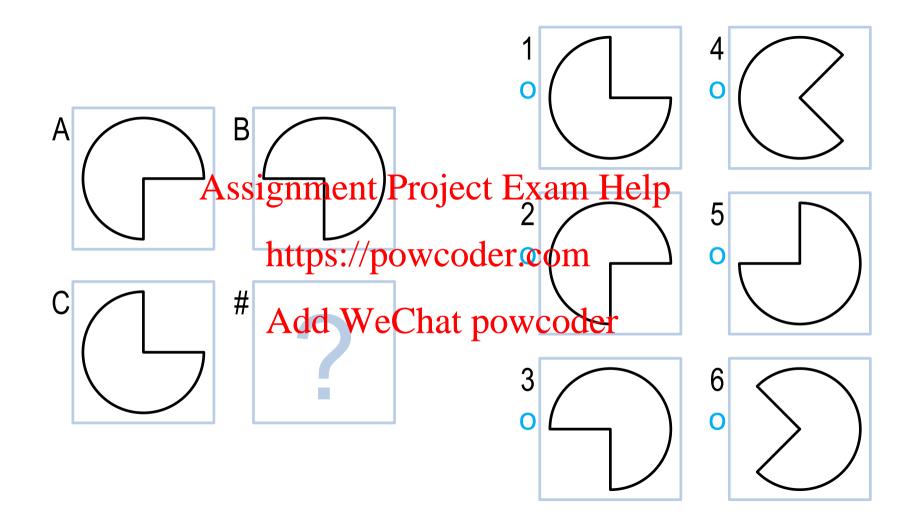


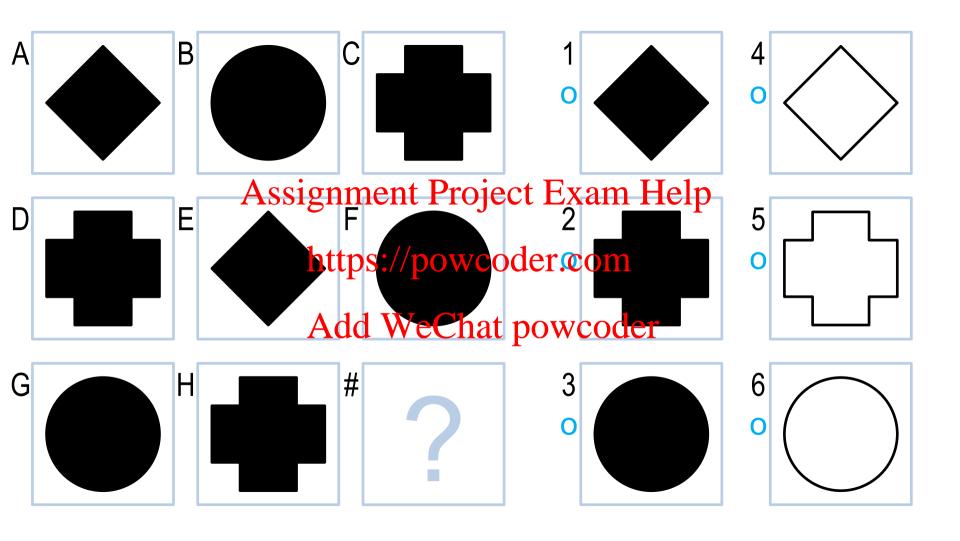


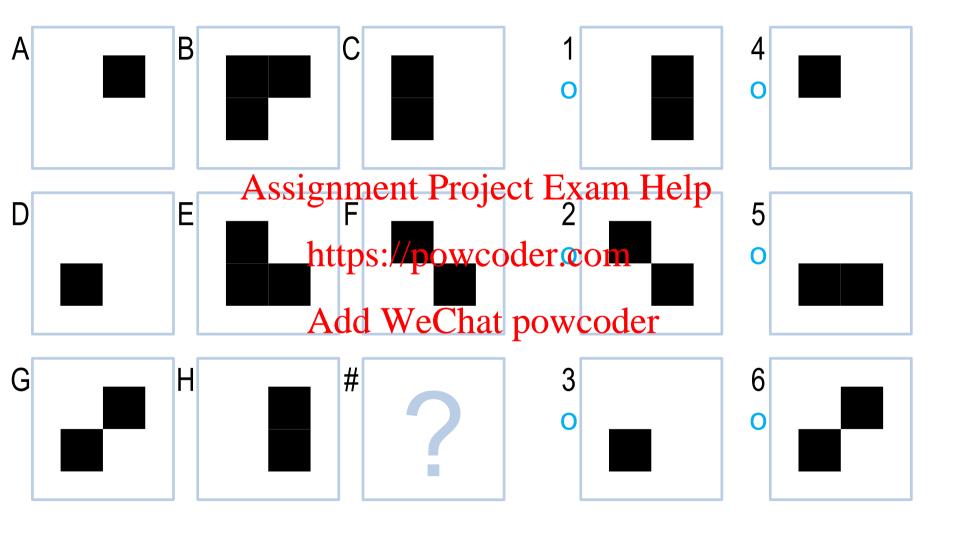












Principles of CS7637

- 1. KBAI agents represent and 5. KBAI agents use heuristics to organize knowledge into knowledge find solutions that are good enough, structures to guide and support though not necessarily optimal. reasoning nment Project Exam Helm
- 2. Learning in KBAI agents is often recurring patterns in the problems incremental. they solve.
- 3. Reasoning in KBAI agents down as well as bottom-up.

 enables reasoning, learning, and memory to support and constrain
 - 4. KBAI agents match methods to each other. tasks.

Frequently-used readings

- Artificial Intelligence by Patrick Winston
- Knowledge Systems by Mark Stefik
- Artificial Intelligence by ElaiReo Rich Enduk everlischen

 Artificial Intelligence by ElaiReo Rich Enduk everlischen Enduk everlischen Enduk everlische En
- Artificial Intelligencettes Modern Approach by Stuart Russell and Peter Norvig

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To recap...

- Class goals, outcomes, and strategies
- The Project: Raven's Progressive Matrices Assignment Project Exam Help
- Principles of CS7637

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