Answers to supplementary Assignment

Enter number of blocks?

- 2 blocks (A and B)

Enter the number of tables?

- 1 table

User: How many blocks available?

- **Machine:** 2 blocks (A and B)

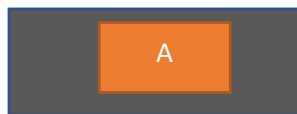**User**: How many tables are available?

- **Machine:** 1 table

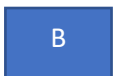**User:** How many numbers of blocks one can have on the surface of a given table?

- **Machine:** 2

Enter the current layout of blocks on the tables

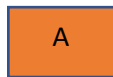- **Block B is on the table, block A in the box**

Box

  block

table

Enter the goal state

- **Block A is on the table, block B is in the box**

Box

Table

Alternative answers

Or

- **Block A is on top of block B**

Or

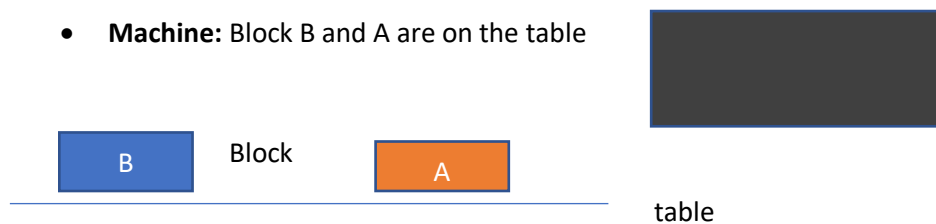- **Block B is on top of block A**

Enter the Plan to achieve the goal state

User: Is block A in the box? (<u>Hint</u>: for the block to be on the table it should come from the box)

- **Machine:** Yes

User: Put block A on the table

- **Machine:** Block B and A are on the table

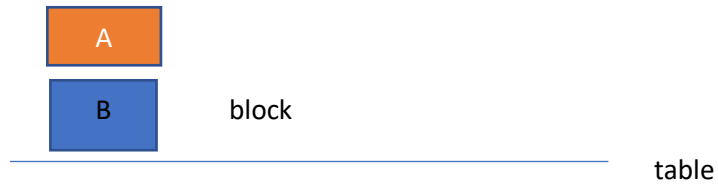B   Block   A   table

User: Is Block B on the table?

<u>(Hint: putting a block on top of another block requires the former block(B) to be</u>

<u>on the same table as the latter(A))</u>

- **Machine:** Yes

User: Put block A on top of B.

- **Machine:** Block A is on top of B

A
B	block

_____   table

User: Where is Block A?

(<u>Hint:</u> for a block to be on the table it should come from the top of another block)

- **Machine:** Block A is on top of B

User: Put block A on the table.

- **Machine:** Block A and B are on the table.

| B | Block | A |

_____   table

User: Move block B to the box

- **Machine:** Block B is in the box; you have reached the goal state!!

| B |

Box

| A | block

_____   table