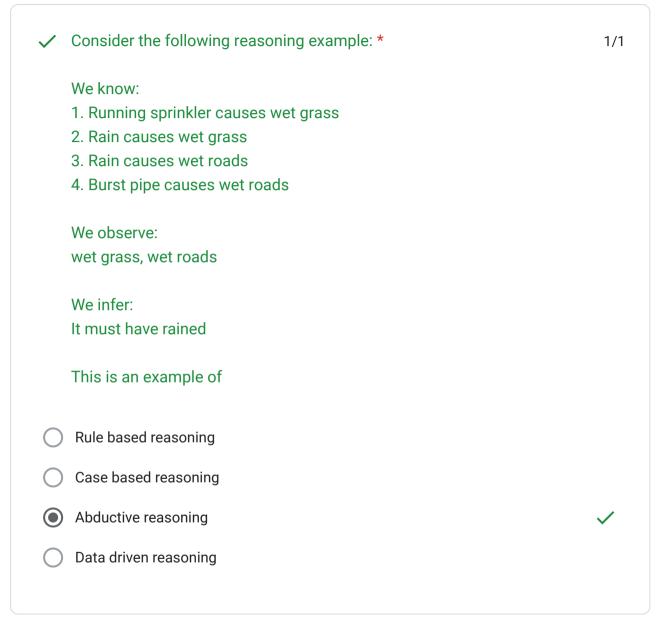# Reasoning paradigm

Total points 2/4

The respondent's email (**m22cs060@iitj.ac.in**) was recorded on submission of this form.

✕ **Which one(s) of the following are examples of bottom-up reasoning? *** 0/1

☐ Rule based reasoning

☐ Model based reasoning

☑ Data driven reasoning   ✓

☑ Case based reasoning   ✕

Correct answer

☑ Data driven reasoning

✓ **Consider the following reasoning example: ***   1/1

We know:
1. Running sprinkler causes wet grass
2. Rain causes wet grass
3. Rain causes wet roads
4. Burst pipe causes wet roads

We observe:
wet grass, wet roads

We infer:
It must have rained

This is an example of

○ Rule based reasoning

○ Case based reasoning

● Abductive reasoning   ✓

○ Data driven reasoning

✗ For which mode(s) of reasoning, the inference is valid (can be proved to be correct)? *0/1

☑ Rule based reasoning ✓

☐ Abductive reasoning

☑ Data driven reasoning ✗

☐ Case based reasoning

Correct answer

☑ Rule based reasoning

✓ Consider the following reasoning example: * 1/1

We know that every bird has two wings
We observe an object X with two wings
We infer that object X is a bird

Is this reasoning valid?

◯ Yes

⦿ No ✓

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