

## Assignment No. 1-Idea Solution

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### Q. No.1:

Identify the goals, sub-goals and operators involved in the problem ‘**delete the second paragraph of the document**’ on a word-processor. Use a word processor to delete a paragraph and note your actions, goals and sub-goals.

### Answer:

Imagine you have a document open and you are at some capricious position within it. You furthermore necessitate to make a decision which operators are accessible and what their preconditions and results are.

<u>Operator</u>	<u>Preconditions/ actions</u>	<u>Result</u>
Delete_paragraph	Cursor at start of paragraph	Paragraph deleted
Move_to_paragraph	Cursor anywhere in the document	Cursor moves in document to start of the next paragraph(except where there is no next paragraph when no effect)
Move_to_start	Cursor anywhere in the document	Cursor at start of the document

### Goal:

Delete second paragraph in document

Looking at the operators an palpable one to make your mind up this aspiration is delete paragraph which has the pre-condition ‘cursor at start of paragraph’.

We therefore have a new **sub-goal:** move to paragraph. The pre-condition is ‘cursor anywhere in document’ (which we can meet) but we want the second paragraph so must initially be in the first.

We set up a new subgoal, move to start, with pre-condition ‘cursor anywhere in document’ and result ‘cursor at start of document’. We can then apply move to paragraph and finally delete paragraph.

### Q. No.2:

Which input and output devices you will use for the following systems?

- a) portable word processor
- b) tourist information system

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Compare each of the system and if appropriate give a reason why the conventional keyboard, mouse and c.r.t screen may be less suitable?

### Answer:

During classes and practicals the students can be exposed to a wide variety of input and output devices. They can also be persuaded to ‘collect’ policy/devices, which is, to watch out for shop tills, bank tellers, taxi meters, lift buttons, conjugal appliances etc.

#### **a) Portable Word Processor**

The determining factors are size, mass/weight and battery power. However, remember the purpose, this is a word processor not an address book or even data entry device.

- **LCD screen** — low power requirement
- **Trackball** or stylus for pointing
- **Real keyboard** – you can’t word process without a reasonable keyboard and stylus handwriting recognition is not good enough.
- **Small, low power bubble-jet printer** — although not always necessary, this makes the package stand alone. It is probably not so necessary that the printer have large battery capacity as printing can probably wait until a power point is found.

#### **b) Tourist Information System**

This is likely to be in a public place. Most users will only visit the system once, so the information and mode of interaction must be immediately obvious.

- **Touch screen only** — easy and direct interaction for first time users .
  - **NO mice or styluses** — in a public place they wouldn’t stay long!
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### Important Note:

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Best Regards and remember in your Dua's,

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