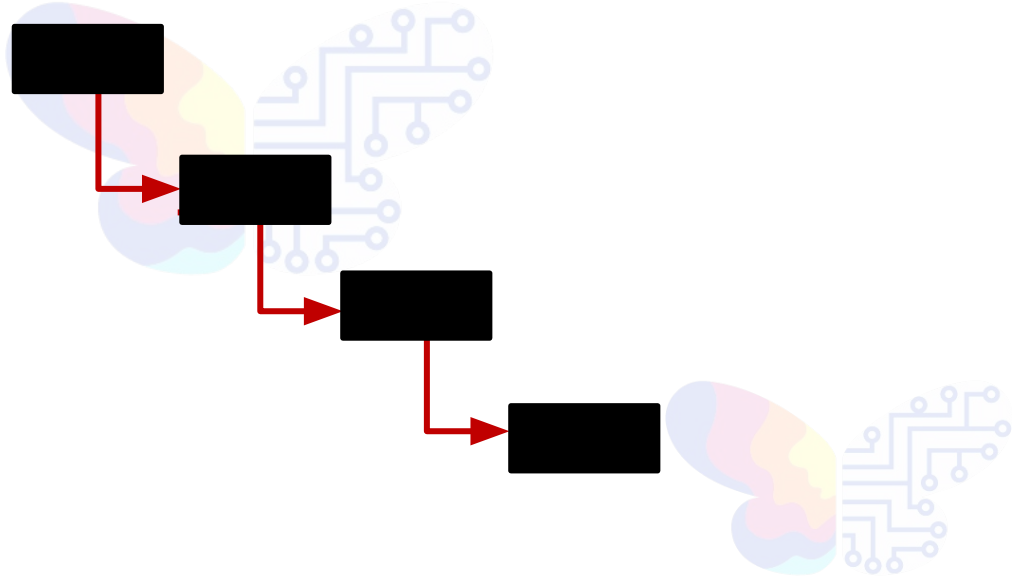




Lesson 11 – Sequencing





Note for Faculty

1. **This lesson has no theory.**
2. **It will be learnt using a story that will bring out the essentials of any sequence in coding.**
3. **This again helps boost imagination & creativity amongst children.**





Lesson learning

A computer runs all codes one line at a time.

It thus needs to be given instructions one line at a time, in the order in which we desire then to be executed.

In this lesson we shall learn about this order, **also called sequencing.**





Project 24 – Delivery Boy

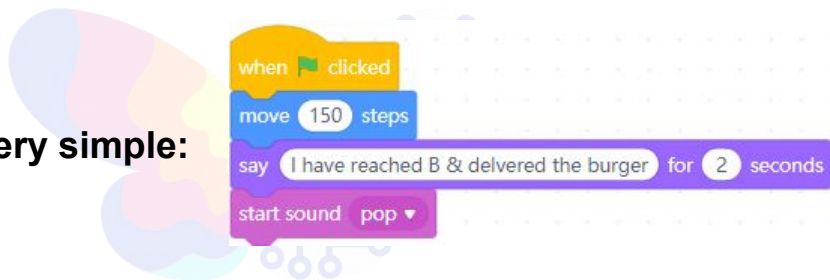
Say we are coding the actions of a delivery boy. To do this, we need to quantify the move of a boy from A to B. For this a possible story could be:

“Start from A, move 150 steps to B, say I have reached B & delivered the burger, & then play sound pop”.





The code for this is very simple:





In this code:

This set of instructions:



is called a

SEQUENCE or SEQUENCING

It is closely linked to the **STORYLINE** for the code





Project 25 – A Day Cycle

We have been given a **project** by our teacher to **Graphically show a complete day cycle.**

Whenever we start working on a coding project, we must carry out an internal assessment or analysis of what all is involved, & how we plan to execute it.

Let us go through this process.





Analysis of the Project

A typical analysis could be:

1. To show a day cycle, one possible method is to show at least four parts of the day – Morning with sunrise, Afternoon, Evening with sunset & Night with the moon.
2. In this project we are using only one Sprite – a Boy around whom the story will be built.
3. We need to select four different backgrounds – showing Morning, Afternoon, Sunset & Night.
4. Now that the characters of the story have been finalised, **let us make a story line to arrive at the correct sequence to code.**





A possible Storyline

Every child will have his unique storyline.

A possible story could be –

“The boy wants to go walking to his grandparents apartment which is way across the city & really far away. He will take an entire day to do so. Therefore, he must start from his farm in the Morning.

At noon he would need to rest in the city park.

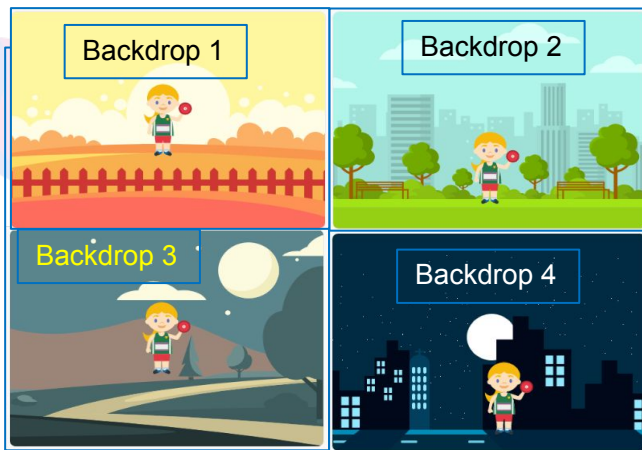
By the time he reaches the outskirts of the city it would be evening & by the time he reaches his grandparents apartment it would be night”.





Selecting Backgrounds

We have selected four backdrops as per the story.

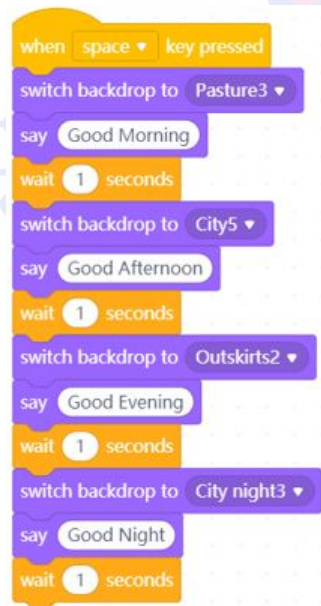




Project Code.

The possible code for this is:

It is a typical ex of a sequence.





Take Aways...

- **All codes contain a number of actions. These need to be executed in a prescribed manner for the code to run successfully. If not it will result in an error.**
- **For this, blocks are stacked one below the other in the correct order.**
- **This is called a sequence, & the process is called sequencing.**





End of Lesson 11



Code Karega India Badhega