

# Programming Fundamentals Lab



Lab # 01

Scratch

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Course Code: CL1002

Semester Fall 2022

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## Contents

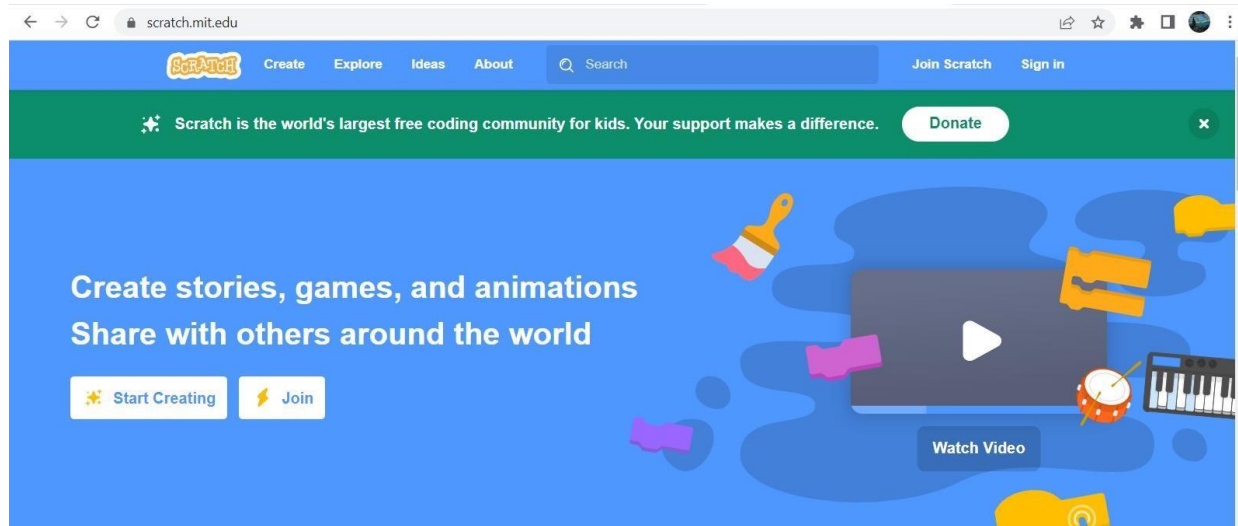
Scratch: .....	3
Website Link: .....	3
Create an interactive story .....	4
Task1: .....	6
Task 2: .....	8
References.....	8

## Scratch:

Scratch is a high-level block-based visual programming language and website aimed primarily at children as an educational tool for programming. Users on the site, called Scratchers, can create projects on the website using a block-like interface. It is a **visual programming language that allows students to create their own interactive stories, games and animations.**

## Website Link:

<https://scratch.mit.edu/>

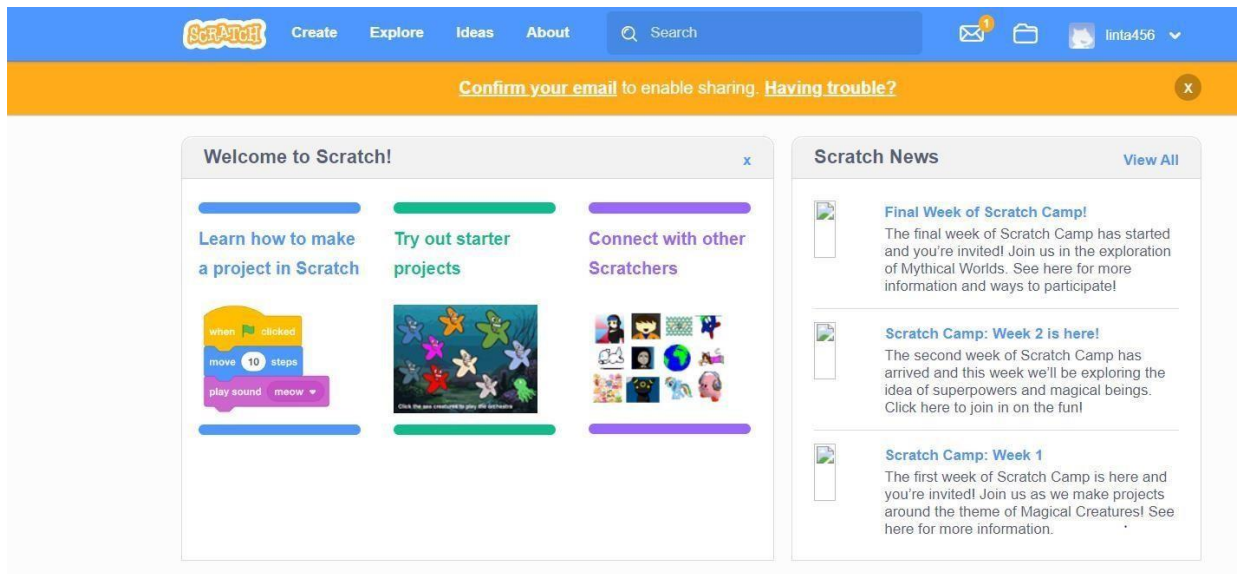


Make your account by clicking on the **Join Scratch** and then fill all the details.

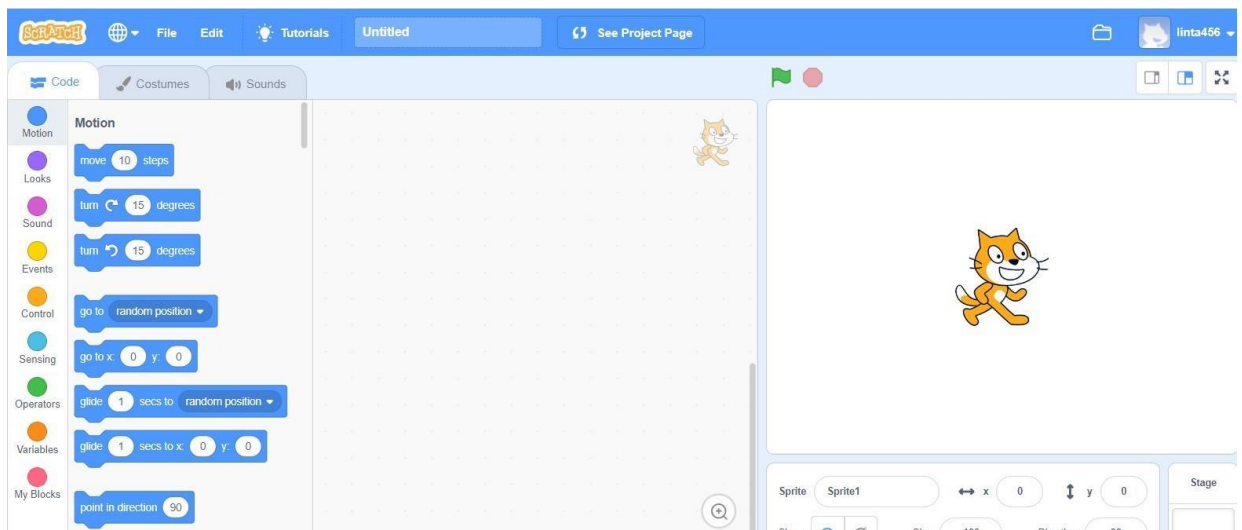
A screenshot of the Scratch 'Join Scratch' registration form. The form is titled 'Join Scratch' and includes the text 'Create projects, share ideas, make friends. It's free!'. It has two main sections: 'Create a username' and 'Create a password'. The 'Create a username' section has a text input field with the placeholder 'Username' and a blue callout bubble that says 'Don't use your real name'. The 'Create a password' section has two text input fields: one for 'Password' and another for 'Type password again'. Below these fields is a checkbox labeled 'Show password'. At the bottom of the form is a large orange button labeled 'Next'. The background of the form is blue with the Scratch logo in the top left corner.

# Create an interactive story

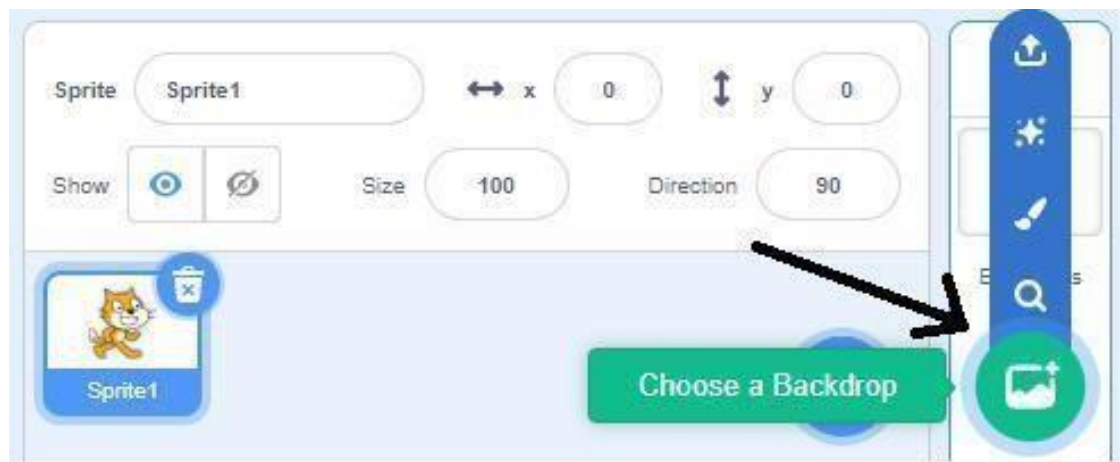
Now click on **create** at the top left corner.



Start creating your blocks!



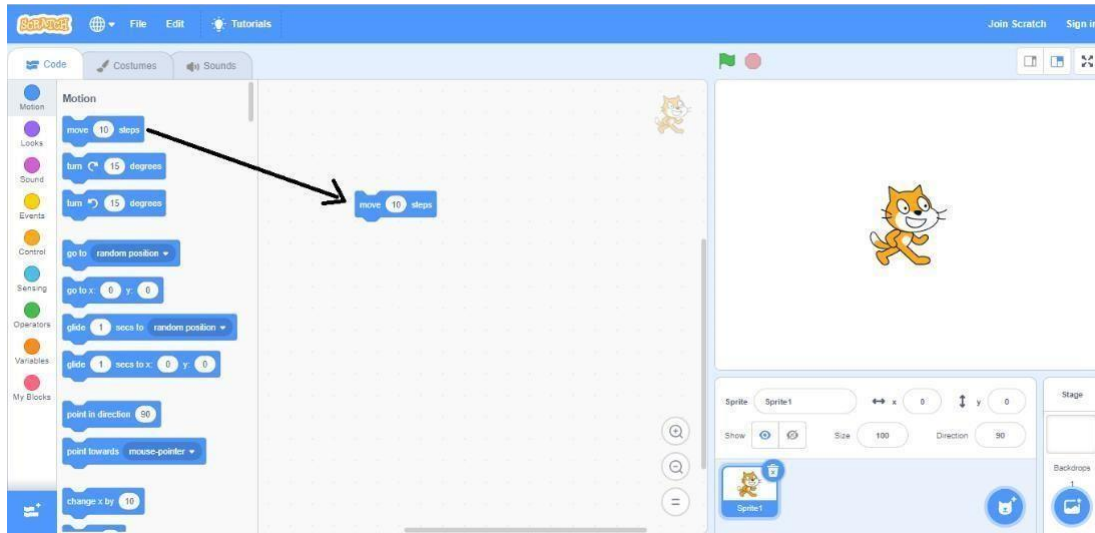
You can change the **Backdrop** from bottom right



Change the character **Sprite** by clicking on cat face logo



Drag the **Move** block in script area



## Task1:

Create an interactive story in which there is a witch and a broom (2 sprites) with a Woods backdrop. The witch moves forward and when it touches the broom, it says “I found a broom. Let’s fly!”. And then stop the script here. Below are the pictures for references.





## Task 2:

Create any interactive story that includes the sprite and the backdrop of your choice. Use different blocks to make your story creative and interactive. Let's see what's in your mind!

## References

<https://scratch.mit.edu/> [https://en.wikipedia.org/wiki/Scratch\\_\(programming\\_language\)](https://en.wikipedia.org/wiki/Scratch_(programming_language))