

# Qutuhah'21 Coding Challenge

Grades 3 to 5

Age 8-10

24<sup>th</sup> October'21 - 30<sup>th</sup> October'21

# How does a Game begin on pressing Start button?

- Do you want to create a small Game which begins on pressing Start button?
  - Anybody Can Code!!!
    - Problem Solving
      - How should it be done
    - Expression/ Coding
      - How can I make it happen through coding

# How should it be done?

- Let's think...
  - ...and the steps I can think of are..we need:
    - A button labelled Start and
    - A way to get Game started when we click or press the Start button
    - The Game itself

# How do we express these steps in code or a program?

- Lets go step by step
- The first step is:
  - To create a button labelled Start

# Coding Platform

- Let's see our coding platform Scratch
- Please open [www.scratch.mit.edu](http://www.scratch.mit.edu) from your browser

# How do we express these steps in code or a program?

- The second step is:
  - A way to get the Game started when we click or press the Start button
- To understand how to express this step through code, lets first understand the coding concept of Events
- So, what are Events?

# What are Events?

- In coding, Event is an action that triggers a code to run.
- The action could be a user action(button or key press) or sensor outputs(system hears a voice command) or messages passed from another program and there could be more
- Would this help us..?
  - Do we have a user action that needs to trigger code?
    - Yes! On pressing Start button the Game should begin



# How do we express these steps in code or a program?

- The third step is:
  - Creating the Game



# Let's discuss our observations..

- Did it work?
  - Yes!!!
- Ok! We learnt how to start the Game by pressing Start button. How do we stop the Game
- Let's try and learn one more Event here
- We could press a key to stop the Game
- Let's see how

# It's your turn now...

- Create a Project using the concept of Events and at least two different Event blocks in Scratch to Start a Game when Start button is pressed and to Stop a Game when any key is pressed. You may create a simple Game for this project.
- Submit a 2 minute running video of your project in execution at the email address [giis\\_clevered@clevered.com](mailto:giis_clevered@clevered.com)

# Reach Us..

- For any Questions/Concerns/Doubts/Suggestions, please feel free to reach us at:
- Telegram-<https://t.me/joinchat/QnE8aYlwvqA1MTkx>
- WhatsApp-<https://chat.whatsapp.com/Fq8dz0PZdTgFxVH7zJxz4d>

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Happy Coding!!!!

