



NLK INTER COLLEGE

STEAM COFFEE BOOK

~ Learning Journey Across Grades..



CODING: APP/GAME DEVELOPMENT

We offer specialized coding classes in App and Game Development, where students learn programming fundamentals using platforms like Tynker and MIT App Inventor. Through hands-on projects, they design, code, and create their own apps and games - building logic, problem-solving, and digital creativity.



GRADE 6

Module 1 : Dragon Tome

Students explored the world of coding and game design using Tynker. They learned core programming concepts such as loops, conditionals, and variables while developing an interactive adventure game.

Module 2 : Help the Needy

In this module students worked on creating an app for specially-abled people. They built an app that guides a visually challenged person to walk. It also helps a speech-impaired person to communicate.



GRADE 7

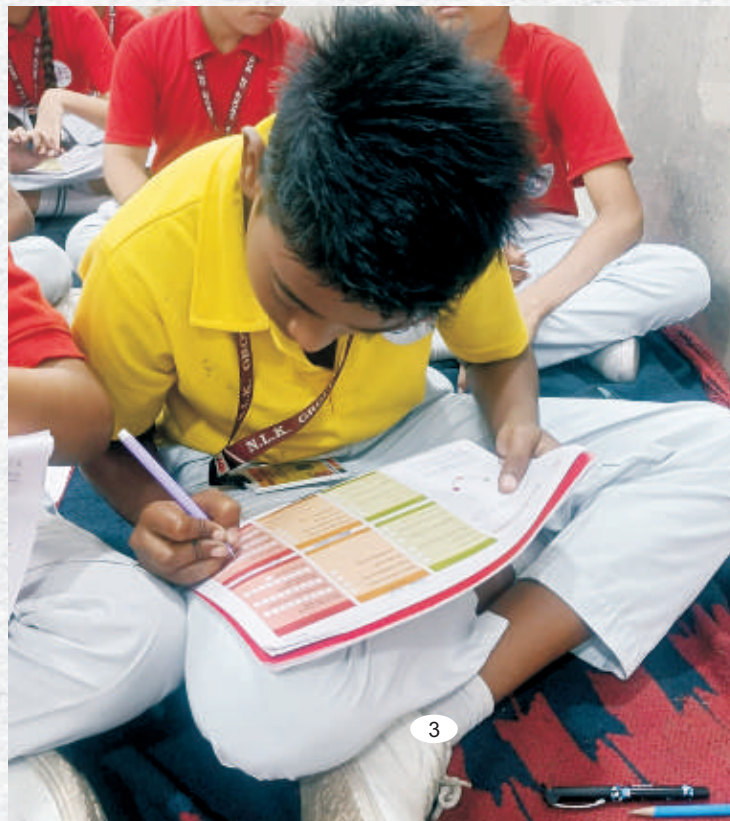
Module 1 : Cannon Tales

Students were introduced to the art of gaming simulation. They built a gaming simulation involving shooting alongside principles of physics. They also learnt about variables and making them work for various elements of game.



Module 2 : Think Productive

In this module, students developed productivity applications such as an Event Reminder and an Attendance App, designed to 'save the date' and notify users about scheduled events. They extended their learning by applying it to solve a real-world challenge.



GRADE 8

Module 1 : Pirate Games

Students created a full-fledged game with a pirate theme. They used variables to manipulate various elements of the game, further enhancing the understanding of the same.

Module 2 - Communication Made Easy

This module encourages students to think critically about real-world communication challenges and build practical solutions, strengthening their skills in coding, creativity, and user-centered app design.



CAPSTONE SOLUTIONS



THINK PRODUCTIVE PROJECT 2: EVENT REMINDER

In this project, you build another productivity app called the event reminder, which will save and remind the events scheduled for the day using the MIT App Inventor.

- What is the command used to display the reminder notification in the app?
`Call Weather = Show Text Dialog message: the weather`
- What is the function of "call saved" command?
 It vibrates for 500 millis when the notification appear
- Change the background colour of the user interface from green to a colour of your choice! Write down the code change you have made below:
 a) Click on Screen 1
 b) Go to properties of Screen 1 to the widget
 c) Change the background colour of your app
 d) Click on Save.
- What additional features can we add to enhance the functionality of this app?
 We can add the following features:
 1) Maps
 2) Email
 3) GPS Service
 4) Connectivity

CAPSTONE

1. What kind of app are you planning to build? Describe it.
 We are planning to build a app that can detect the position and direction of the user's phone and display the location on the map.

2. What features and look planned for the app? Describe it.
 1) Location of the user
 2) Display the location on the map

3. What are the known coding procedures? List them out.
 1) Call the location of the user
 2) Display the location on the map

4. What are the known coding procedures? List them out.
 1) Call the location of the user
 2) Display the location on the map

HELP THE NEEDY

In this project, you will use MIT App Inventor and create an app that will help the needy people to find the location of the needy people.

1. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.

2. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.

3. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.

4. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.

PIRATE GAMES PROJECT 1: AYE AYE

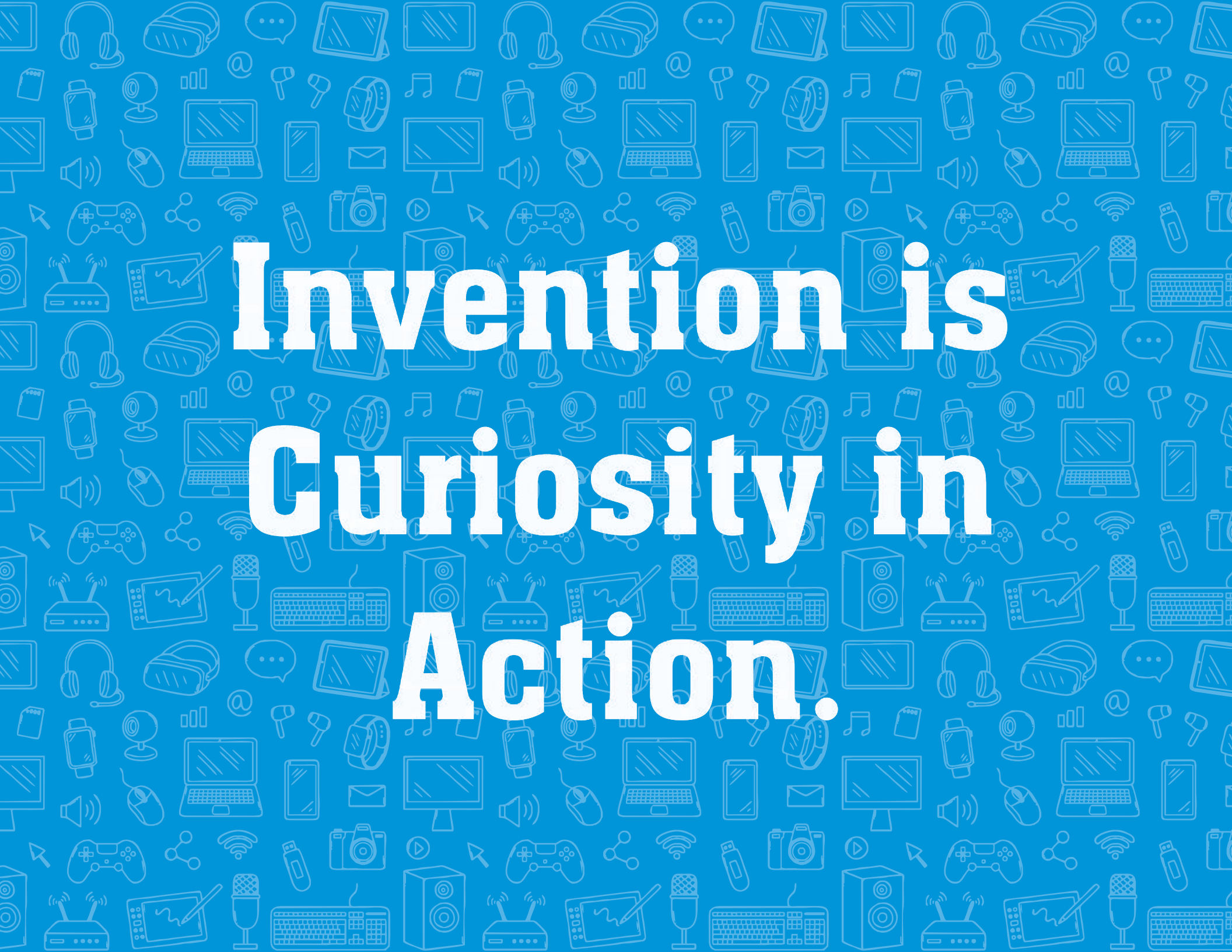
In this project, students will create a fun, budget gaming app that will have various features and features. They will make a game that will have a variety of features and features.

1. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.

2. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.

3. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.

4. What are the known coding procedures? List them out.
 1) The command "when location is changed" is used to detect the location of the user.



**Invention is
Curiosity in
Action.**