



GAME CODING WITH PYTHON



PROGRAM OVERVIEW

The Game Coding with Python program offers an exciting opportunity for kids aged 9 to 13 to learn the fundamentals of coding by creating their own version of the classic game Pong. Through hands-on instruction and interactive projects, participants will explore the world of programming while developing their own playable game using Python.

PROGRAM HIGHLIGHTS

- **Introduction to Python:** Students will receive a comprehensive introduction to Python, a versatile programming language widely used in game development and software engineering.
- **Hands-on Game Development:** Participants will engage in practical coding activities to create their own version of the iconic arcade game Pong, gaining valuable experience in game design and programming.
- **Interactive Learning:** Emphasizing interactive experiences, students collaborate with peers, receive guidance from instructors, and participate in coding challenges and projects.
- **Creativity and Problem-Solving:** Through game development, students exercise creativity, critical thinking, and problem-solving skills as they design, code, and debug their game.
- **Project Showcase:** Participants will showcase their completed Pong game, celebrating their achievements and newfound coding skills with peers and families.

PROGRAM DETAILS

- **Duration:** 6 weeks
- **Schedule:** 2 days a week, for 2 hours each day.
- **Age Group:** 9 to 13 years old
- **Location:** eCode Learning Center
- **Format:** Hands-on workshops, group activities, and project-based learning

PROGRAM OBJECTIVES

- Introduce kids to the fundamentals of programming and computer science through hands-on game development using Python.
- Develop coding skills, including syntax, logic, and problem-solving, in a fun and engaging environment.
- Cultivate creativity and innovation as students design and customize their own version of the classic game Pong.
- Foster collaboration and teamwork as participants work together to overcome coding challenges and bring their game ideas to life.
- Empower kids to become confident and independent coders, equipped with the skills and knowledge to pursue further exploration and learning in computer science and game development.