

# AgriConnect

DIGITALLY EMPOWERING OUR YOUTH TO LEAD THE MODERNIZATION OF AGRICULTURE IN GHANA



## Girls in ICT

Girls in ICT for inclusive digital transformation

Thursday, 24<sup>th</sup> April 2025



 **10**  
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# Presentation: Girls can Code



# Programming / Coding

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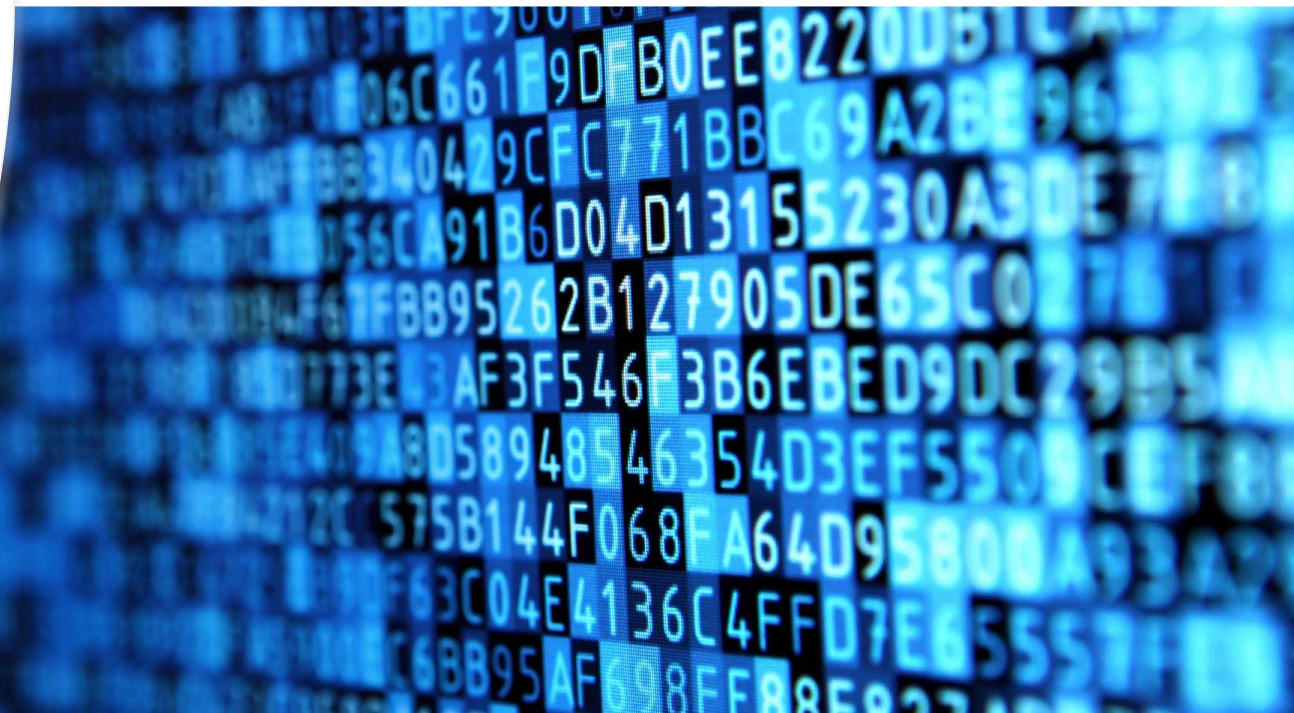
Introduction


```
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
operation = "MIRROR_Y"  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
operation = "MIRROR_Z"  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True
```

```
selection at the end -add  
obj.select= 1  
obj.select=1  
context.scene.objects.active  
("Selected" + str(modifier  
obj.select = 0  
bpy.context.selected_obj  
data.objects[one.name].se  
print("please select exactly
```

--- OPERATOR CLASSES ---

```
types.Operator):  
X mirror to the selected  
mirror_x"
```





# What is Programming?

**Programming is a collaboration between  
humans and computers.**



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# PROGRAMMING AS COMMUNICATION, or CODING

**Is there a difference between  
programming and coding?**

- Programming – Mental process
- Coding – the process of transformation

# PROGRAMMING AS COLLABORATION

## Human

Thinks creatively  
Communicates through inference  
Detects patterns to make sense of world  
Inconsistent  
Can get bored

## Computer

No creativity (follows given instructions)  
Limited hard-wired knowledge  
Calculates information quickly  
Consistent  
Does not lose focus

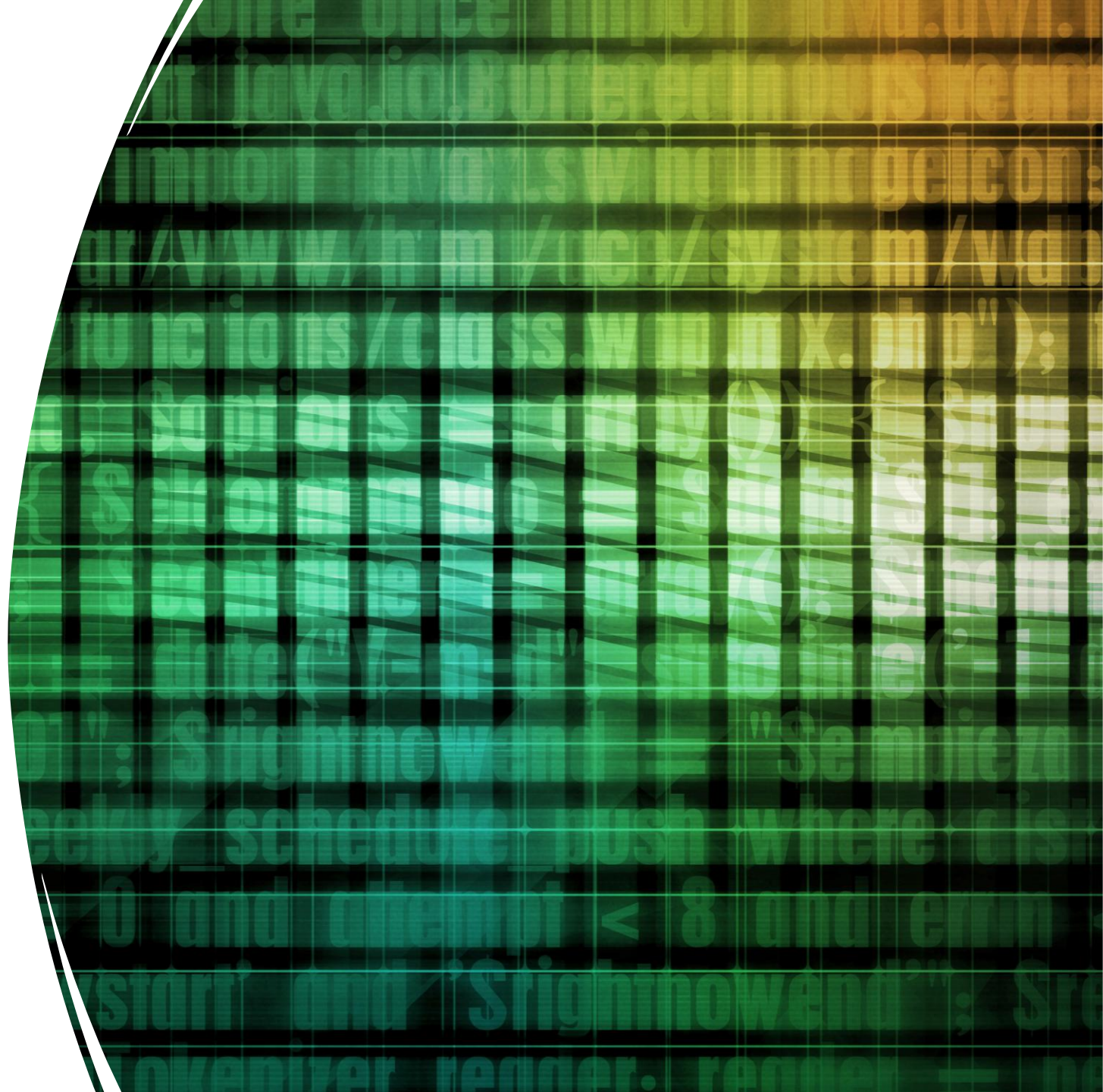


# Types of Programming Languages

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Some popular types include:

- **Web Development:** HTML, CSS, and JavaScript
- **Mobile App Development:** Swift and Kotlin
- **Data Science:** Python and SQL
- **Game Development:** C++ and Unity





# What is Coding Used For?

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- Building Websites and Apps
- Creating Software
- Data Analysis
- Artificial Intelligence

Coding is a valuable skill that transcends industries, from healthcare and finance to entertainment and education.



# Crucial Role of Coding in Agriculture

- **Impact of coding:**

- Smart Irrigation
- Automated Harvesting
- Crop Monitoring and Disease Detection
- Precision Herbicide Application
- Soil Analysis and Nutrient Management
- Waste Management
- Wildlife Protection
- Data Analysis and Decision-Making
- Precision Farming





# Coding Applications in Agriculture

- Software for crop monitoring
- Smart farming platforms
- AI-powered pest detection
- Automated harvesting systems



Technology to help  
you grow the future



# Introduction to coding: what is coding?

Teaching and Learning team, University of York  
[subjectguides.york.ac.uk/coding](http://subjectguides.york.ac.uk/coding)

# Learning How to Code

*Online Courses*

Coding Bootcamps

Self-Learning with  
Resources



# Benefits of Learning Coding

- Experience High Demand & Earning Potential
- Use Problem-Solving & Creativity Skills
- Build Anything You Imagine
- Future-Proof Your Career

Learning to code can be an investment in your future!

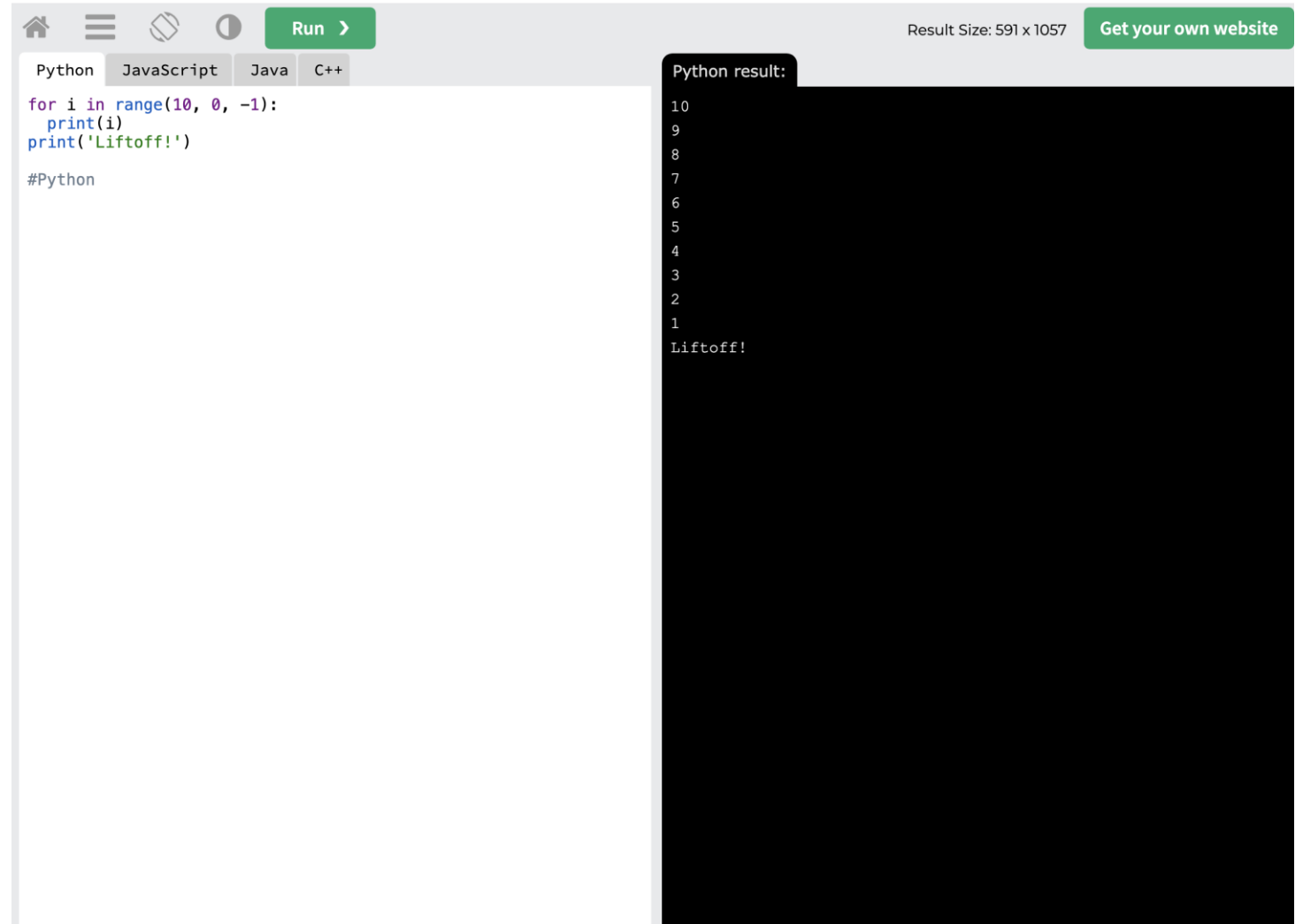


# Demonstration

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- Hands-on Session using W3Schools

<https://www.w3schools.com/programming/index.php>



The screenshot shows the W3Schools online Python editor interface. At the top, there is a navigation bar with icons for home, menu, and a 'Run' button. Below the navigation bar, there are tabs for different programming languages: Python, JavaScript, Java, and C++. The Python tab is selected, and the code editor contains the following Python code:

```
for i in range(10, 0, -1):  
    print(i)  
print('Liftoff!')
```

Below the code editor, there is a section labeled 'Python result:' which displays the output of the code. The output shows a countdown from 10 to 1, followed by the text 'Liftoff!'.

Result Size: 591 x 1057

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