

Sprint 4

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Sprint 1 Block Code



Start



on start program

main LED

speak ready set go and wait

roll 90° at 50 speed for 3s

delay for 1s

roll 180° at 50 speed for 3s

delay for 1s

roll 270° at 50 speed for 3s

delay for 1s

roll 0° at 50 speed for 3s

delay for 1s

main LED

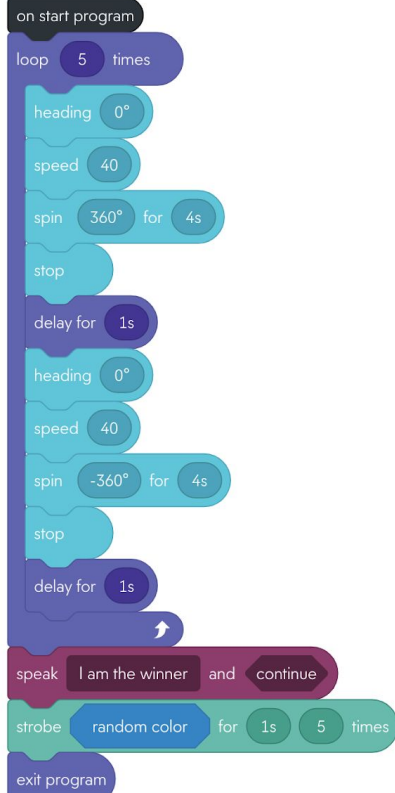
speak I'm done and I need water and wait

exit program

Sprint 2 Block Code



Start



Sprint 3 Block Code



Start

on start program

roll 0° at 40 speed for 5s

speed 40

spin 360° for 4s

roll 0° at 40 speed for 3s

speed 40

spin -270° for 4s

roll 90° at 40 speed for 2s

speed 40

spin 270° for 5s

roll 0° at 40 speed for 3s

exit program

Sprint 3 Video



Challenges we faced

- **Collaborating as a group at the same time**
- **Not having the correct obstacles/tracks to practice our sprints**
- **Bluetooth often disconnected from robot**
- **Creating clear requirements**

Team Member Roles: Tom

- **Project Overview**
- **Product Service Description**
- **Project Requirements**
- **Gantt Chart**

Team Member Roles: Meghan

- **Algorithm**
- **Block Code**
- **Testing Robot**

Team Member Roles: Tyrone

- **Flowchart**
- **Authorization**
- **Portability**

What we have learned about Software engineering

- **How to use block code**
- **How to use Sphero.edu**
- **How to plan and develop a project**
- **What is abstract and concrete**
- **How to translate block code into a flow chart**
- **How to write code so it matches requirements**

What could we have done differently?

- **Testing the robot as a group**
- **Multiple robot tests**
- **More detailed requirements**
- **Different types of obstacles**