

It is important to stay organized throughout the year and your organization is reflected in your progress report!

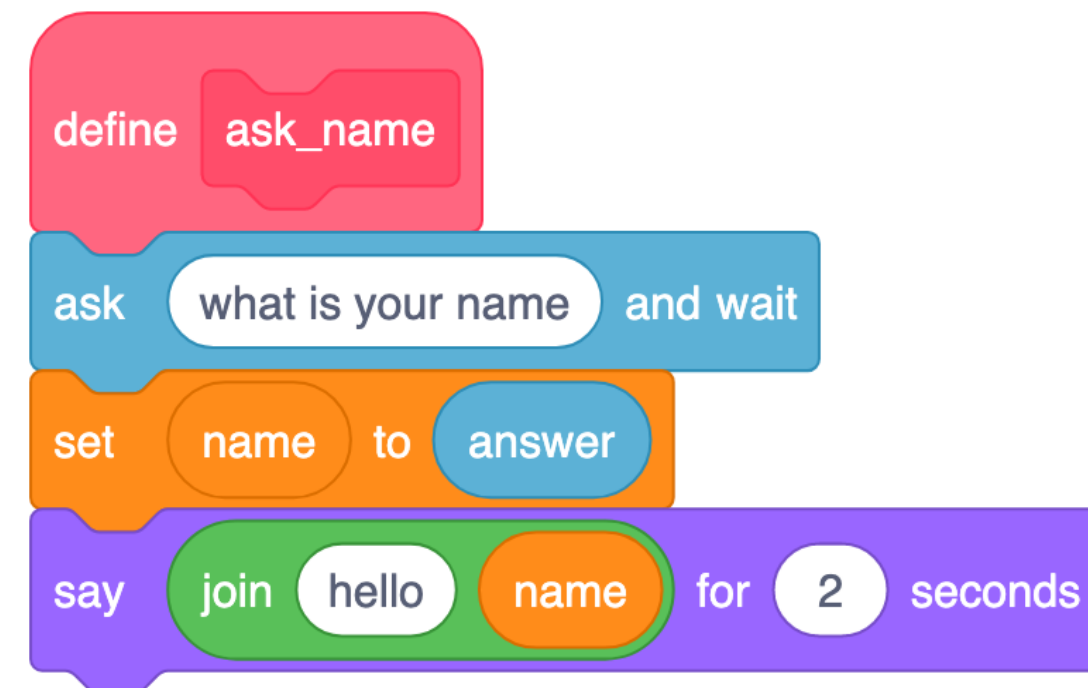
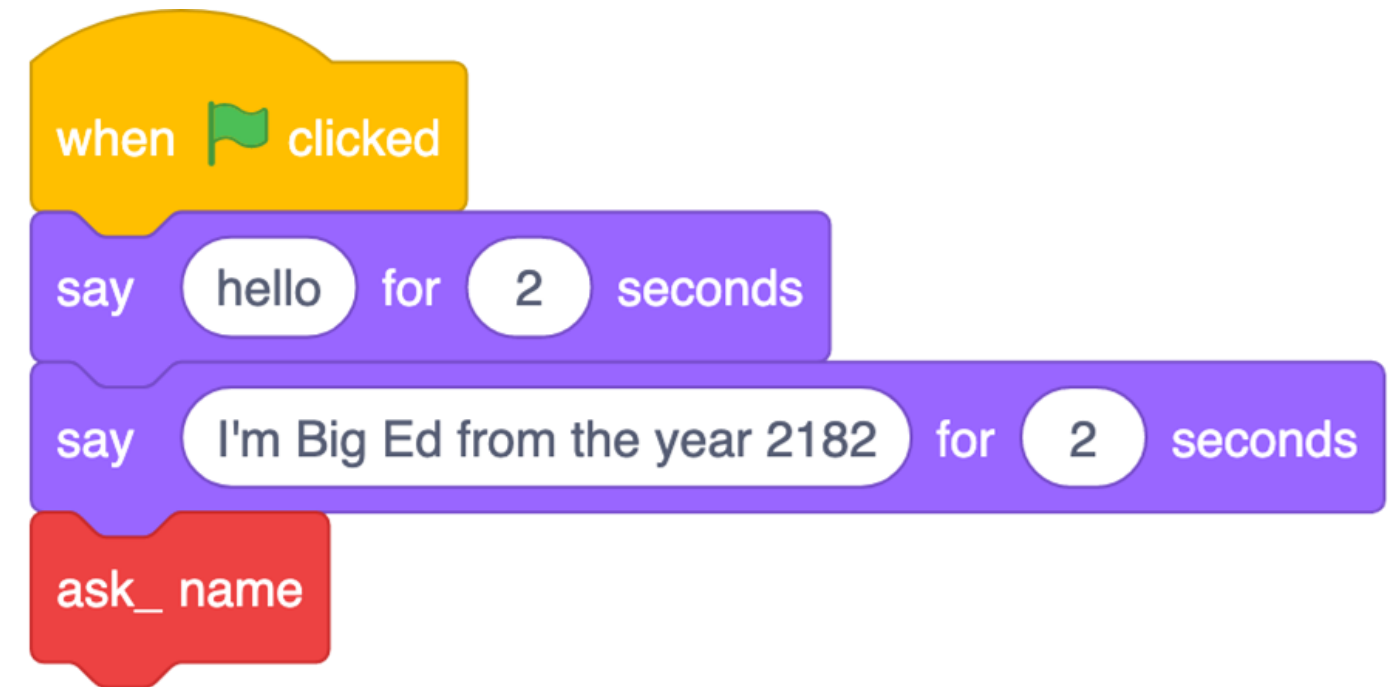


1. Create a new folder in your OneDrive called Year 8.
2. Create a folder in Year 8 for each of your subjects.
3. Inside your Computer Science folder, create a folder for each of the topics you will study this year:
 - Programming
 - Fabrication
 - Robotics
 - MIT Challenges

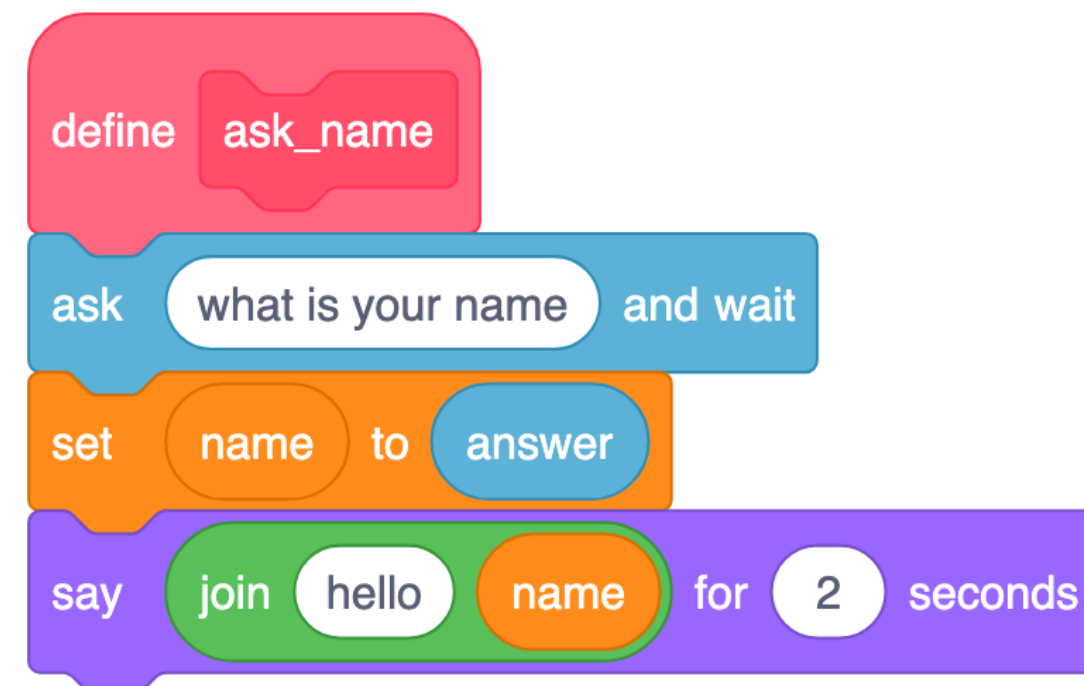
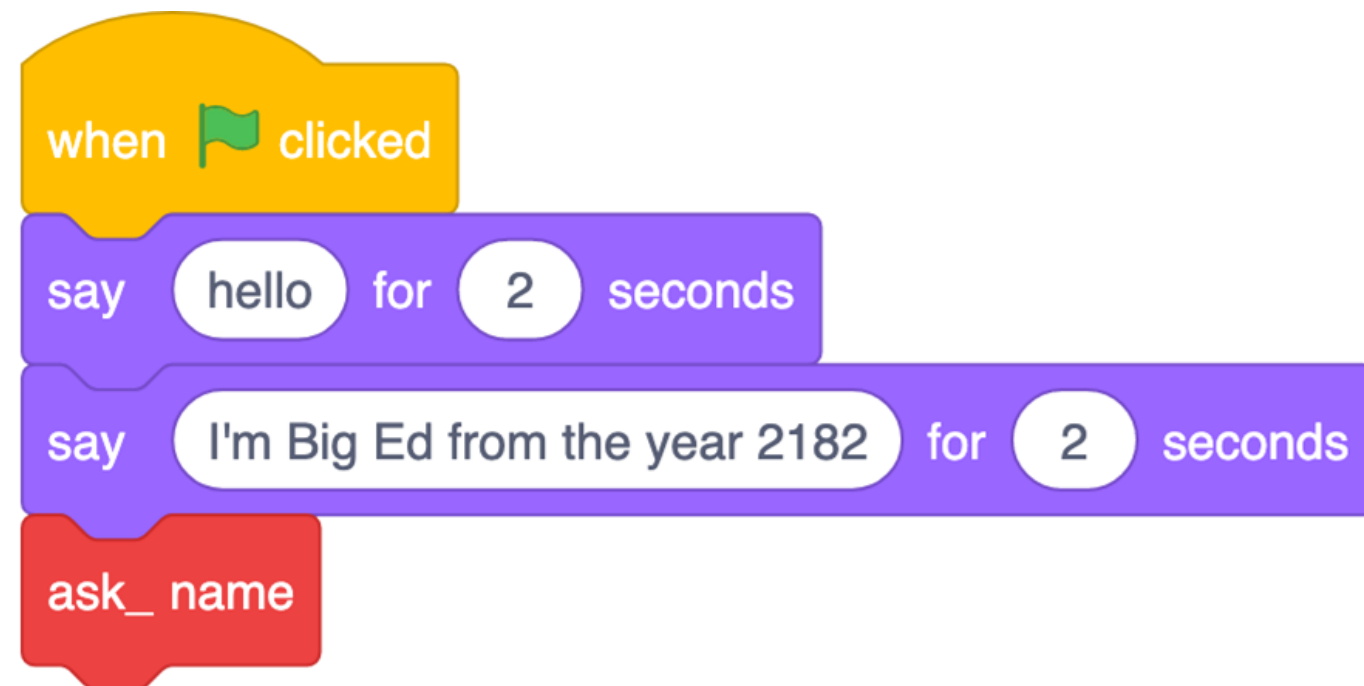
Do now: Meet Big Ed

Big Ed is your friendly chatbot, a type of program which can talk to you!

Can you explain how the code behind Big Ed works?



Code Explanation

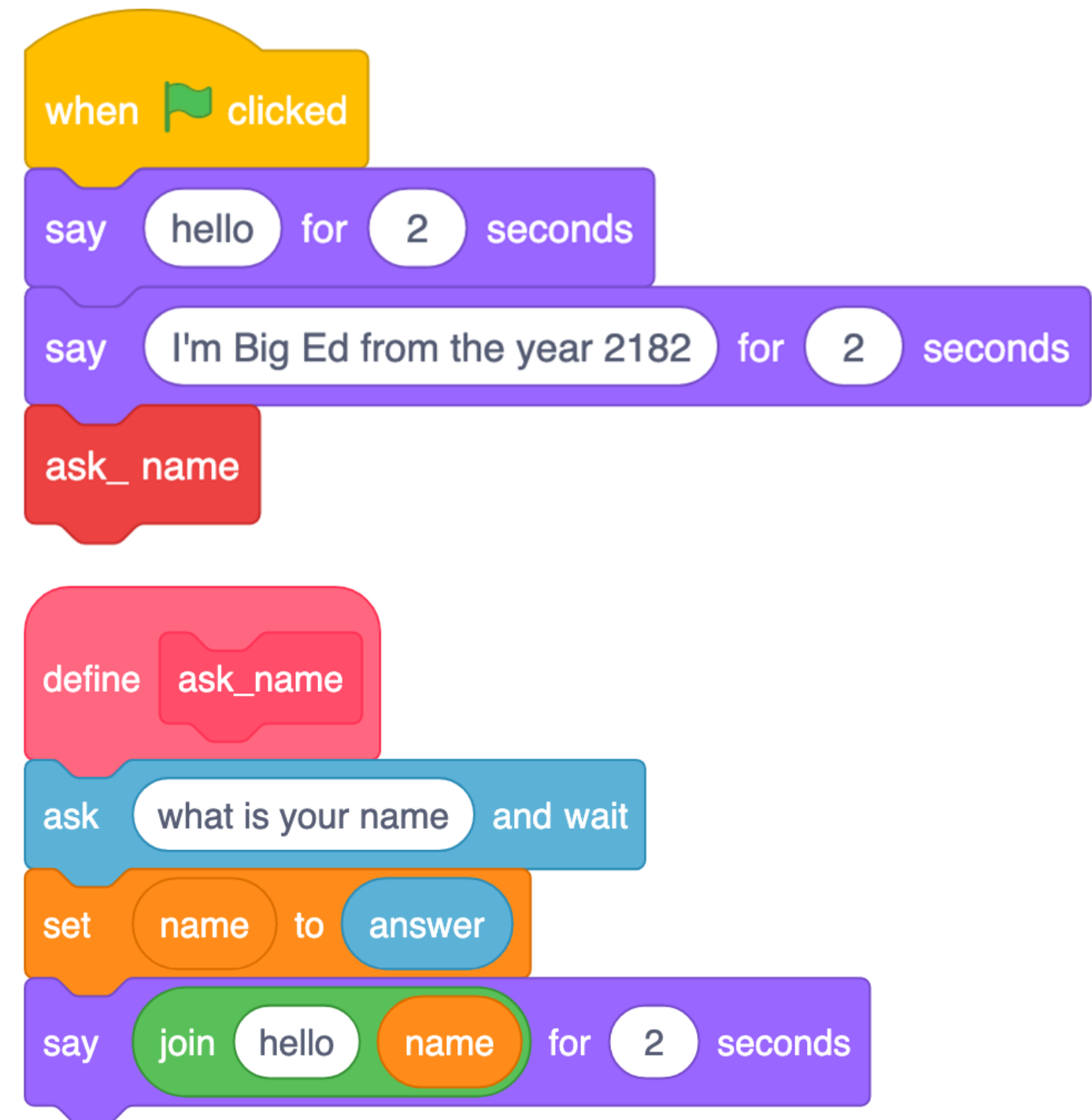


Variables

A variable is a name that refers to data being stored by the computer

Task 1: Setup your chatbot.

- Go to www.scratch.mit.edu and if you have an account, log in. Otherwise, create a new account!
- Create a new program.
- Select a new sprite to be the face your chatbot.
- Copy and run the code on the right to start your chatbot.



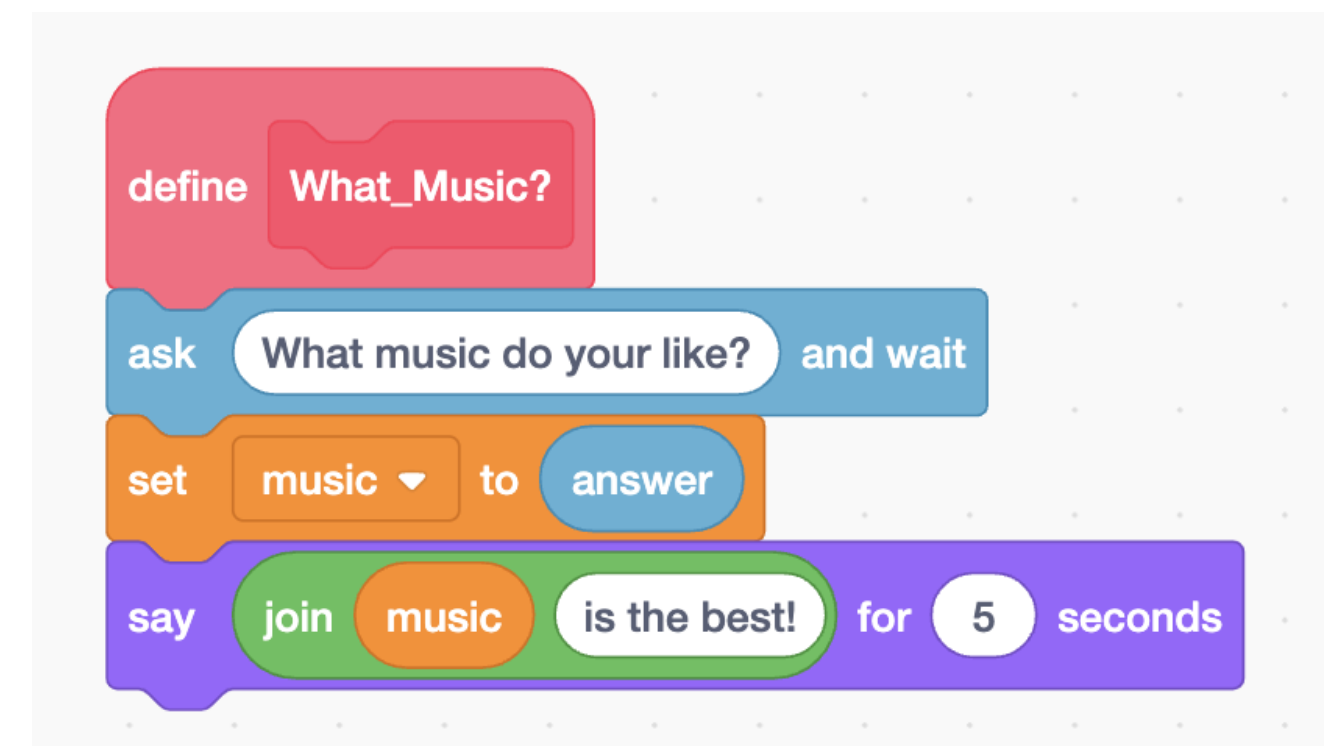
Functions

A function is a sequence of commands which are called when a single command is given.

Task 2: Add responses to your chatbot.

- Create more **functions** to allow your chatbot to discuss a range of different topics.
- You should have at least 5 **functions** with appropriate responses.
- Each function should take data in from the user and store it in a variable.
- The data from the user should be used in the output to the user feels they are being listened to!

Example:



Blog Post

- Create a blog post titled: 9.1 - Computer Programming
- Add the heading: “Creating a chatbot using Scratch”
- Add a screenshot of your work today.