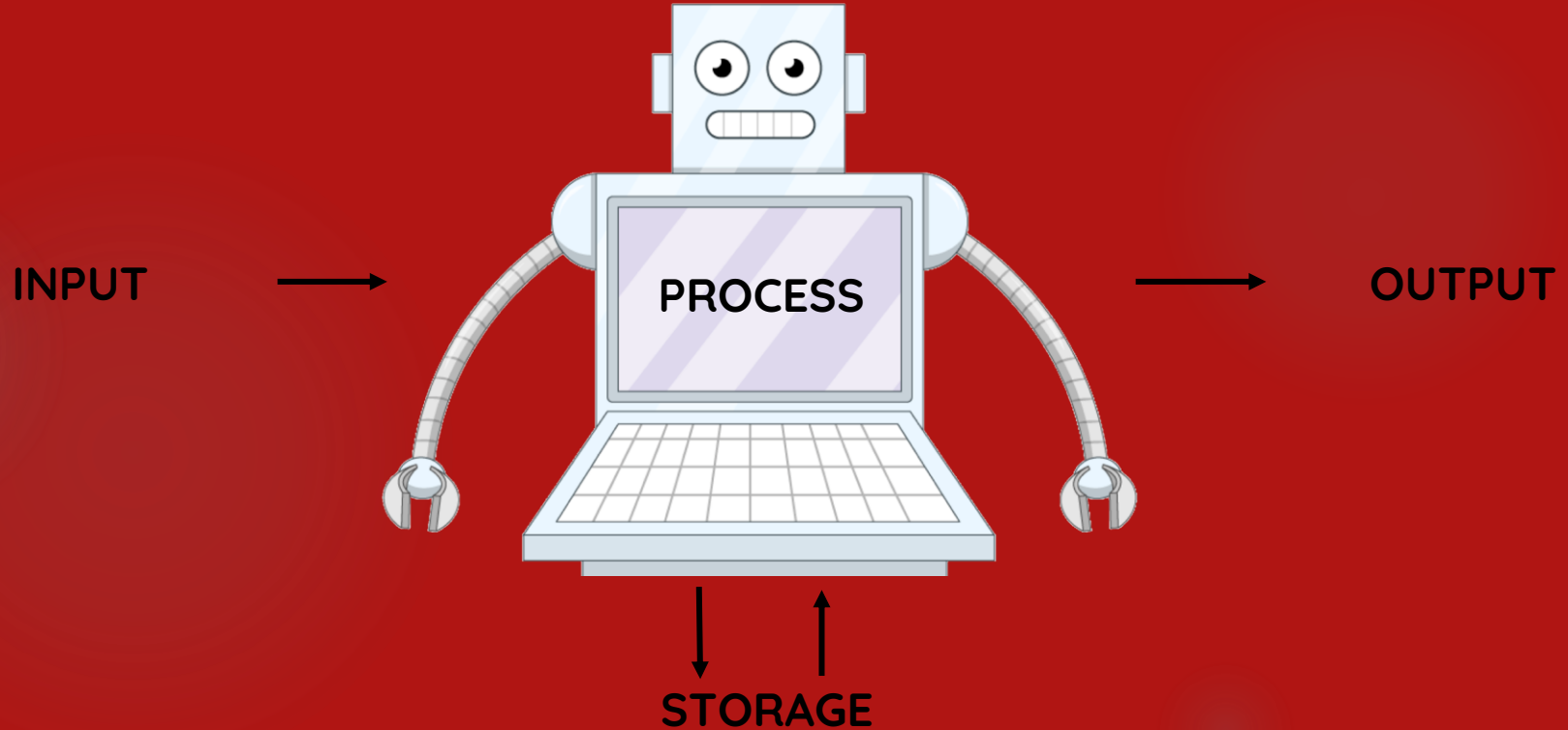


Input — process — output



# Meet Big Ed

Big Ed is your friendly chatbot.

Your task is to work in pairs to answer the questions on the activity sheet. You'll find out what the code does and have the chance to experiment with it.

Start by opening the Scratch program.

[ncce.io/biged1](https://ncce.io/biged1)

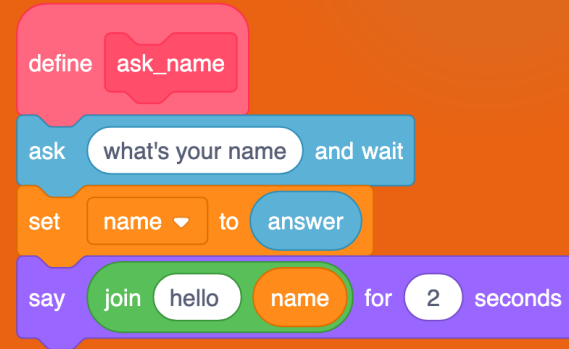
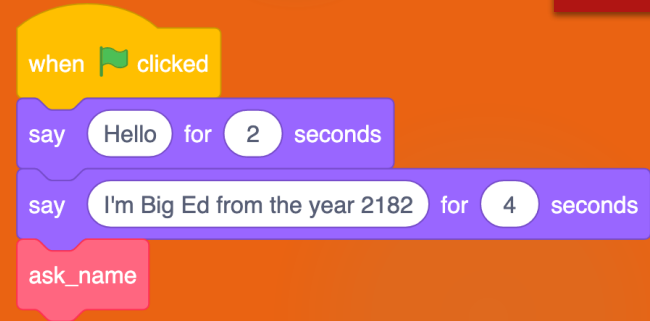


# PREDICT

With a partner, spend time reading the code on the right. Predict what you think will happen.

Run the Scratch code from the link provided.

- ⤵ Were your predictions correct?
- ⤵ Did anything surprise you about the code?
- ⤵ Did you miss anything out?



[ncce.io/biged1](https://ncce.io/biged1)

# Worksheet: INVESTIGATE and MODIFY

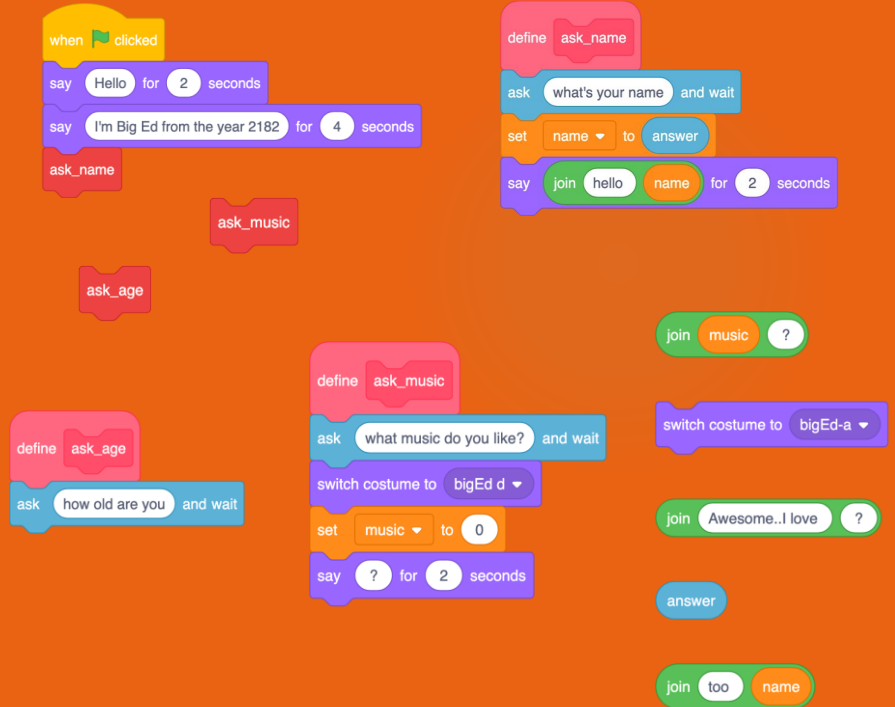
Continue with the worksheet.

Work in pairs, but complete your own worksheet.

Follow the instructions and investigate how the code works.

Move through the tasks independently.

Don't wait for your teacher to instruct you to move to the next section.



# INVESTIGATE: Answers

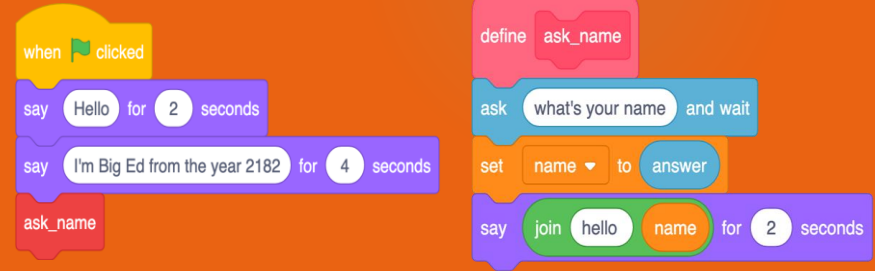
How do the following two blocks relate to each other?

ask\_name

define ask\_name

When your program reaches the ask\_name block, it **calls** the **subroutine** 'define ask\_name'.

'define ask\_name' is a **subroutine**.



# INVESTIGATE: Answers

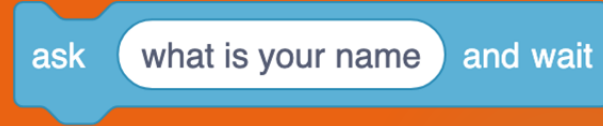
What has this changed about the program when you run it?

Why do you think this is?

Big Ed will now only say “Hello”.

As the question has not been asked, there is no ‘answer’.

The line ‘set name to answer’ will now give name an empty value.



# INVESTIGATE: Answers

Below 'define ask\_name', there are two variables being used.

What are their names?

1. Answer
2. Name



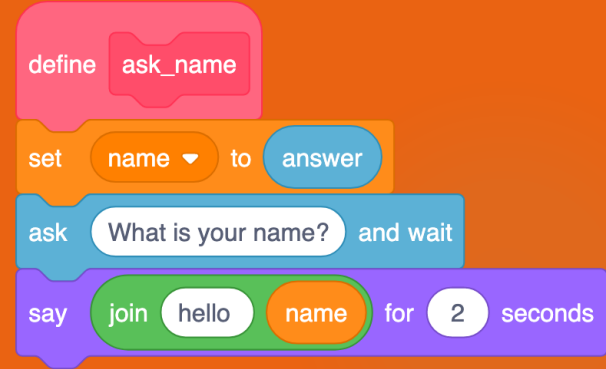
answer

name

# INVESTIGATE: Answers

Why do you think it only says “Hello” and not “Hello” and the name you entered?

What can you learn from this?



It is because ‘name’ is being linked to ‘answer’ before the question is asked.

You must always set the value of a **variable** before using it.

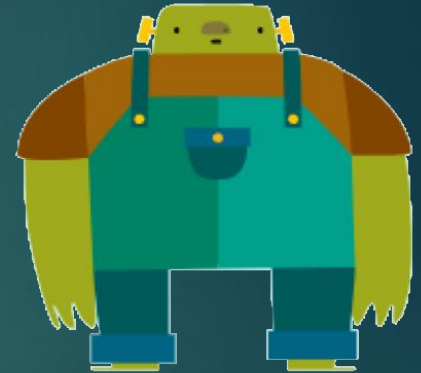
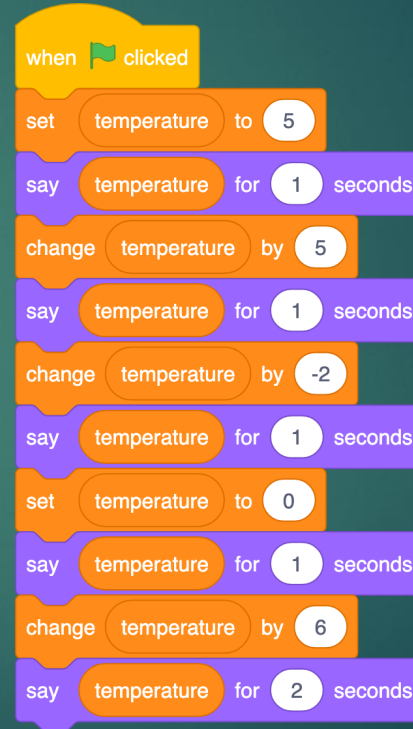


# Trace the score variable: What will Big Ed say?

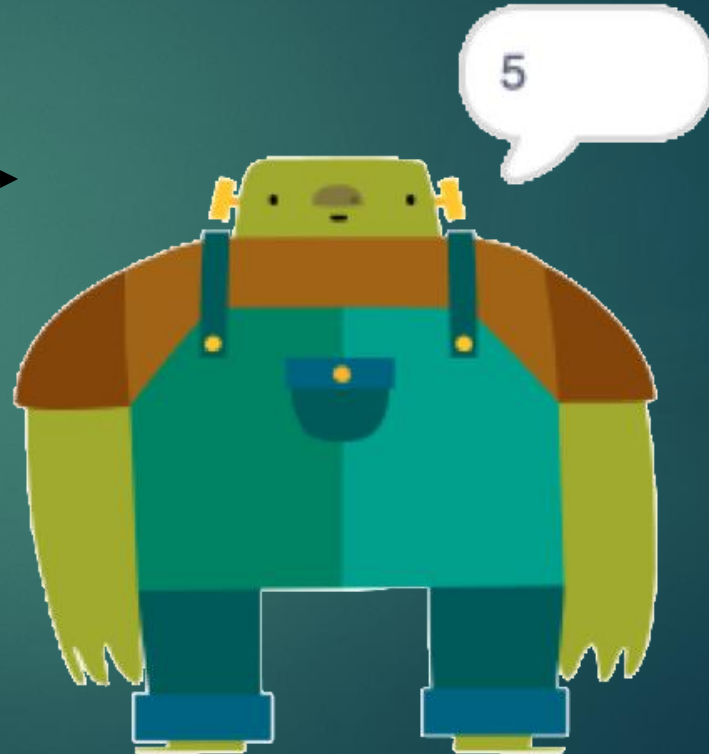
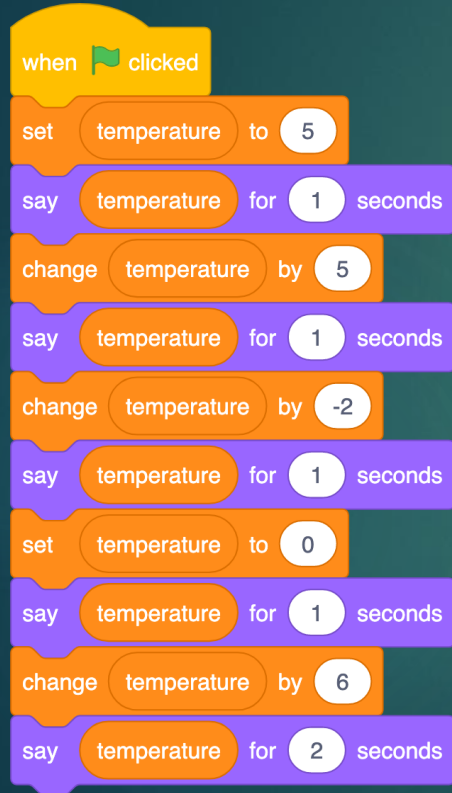
Big Ed has just arrived on a new planet and he's measuring the temperature of his new environment.

Use the activity sheet to trace (keep track of) the value of the temperature variable on each line that it is referenced.

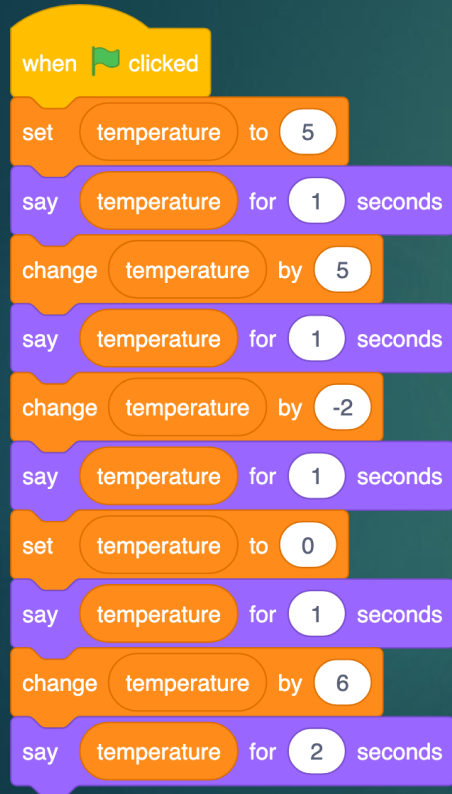
Fill in your activity sheet and write down what Ed will say on each line.



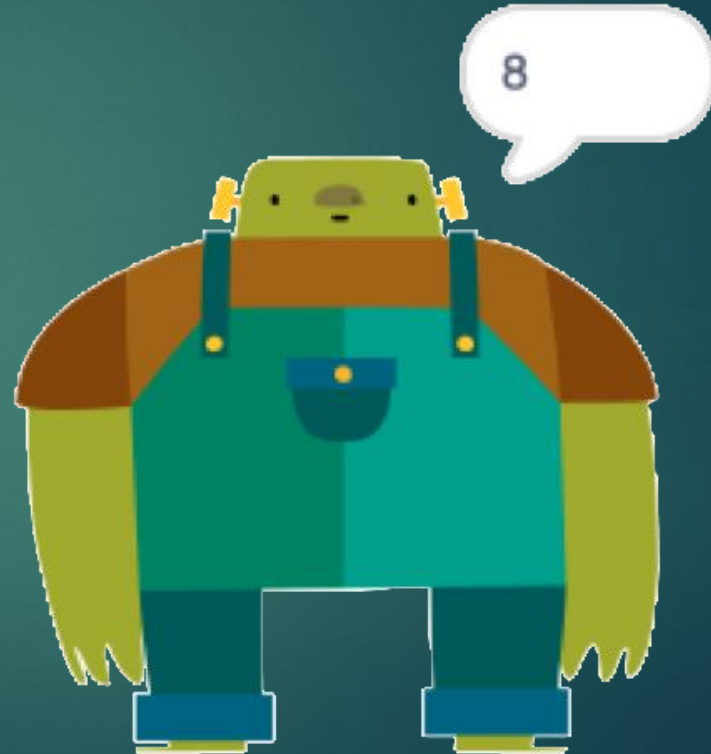
# Trace the score variable: What will Big Ed say?



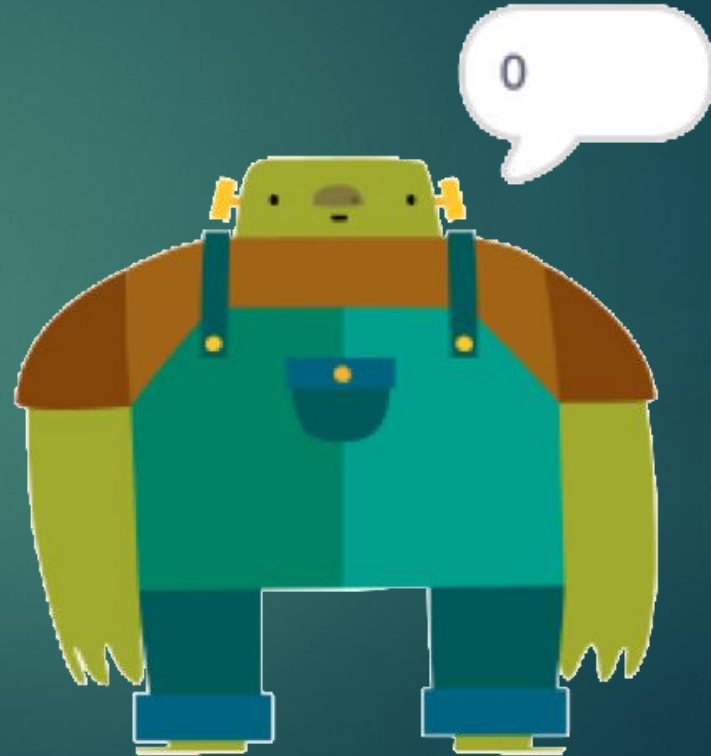
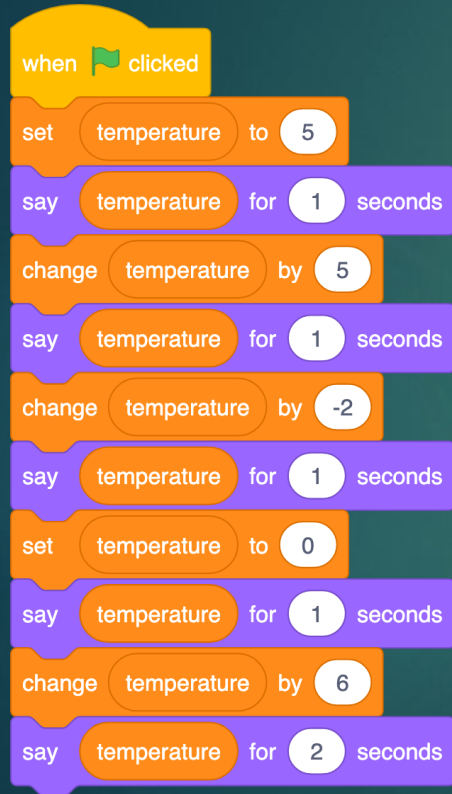
# Trace the score variable: What will Big Ed say?



# Trace the score variable: What will Big Ed say?



# Trace the score variable: What will Big Ed say?



# Trace the score variable: What will Big Ed say?

