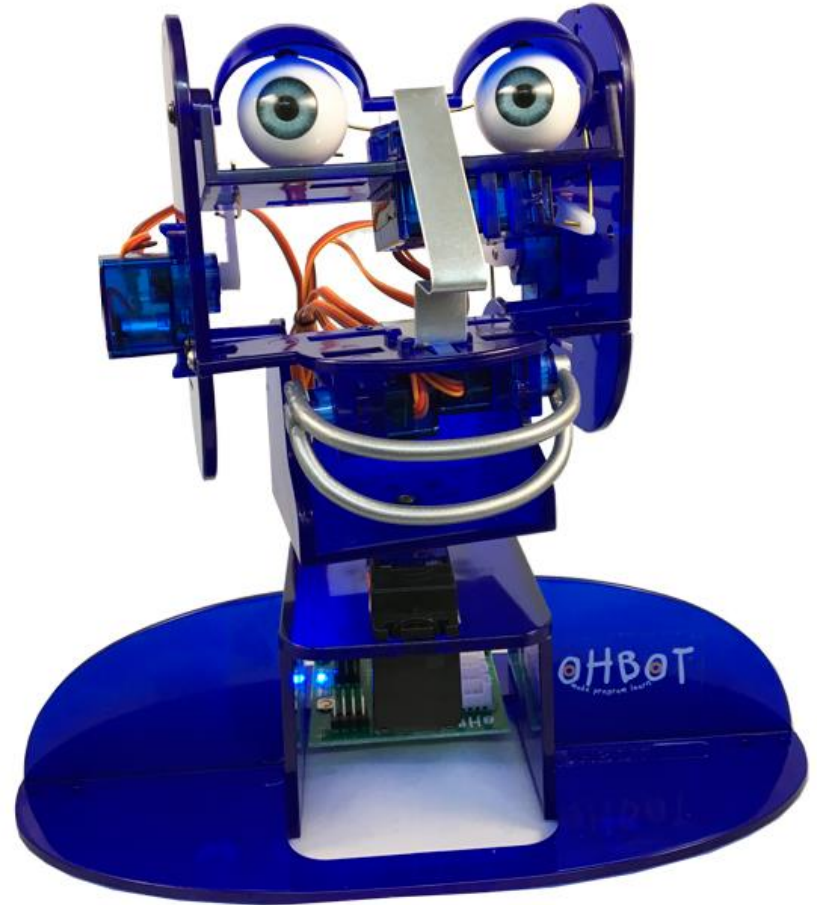
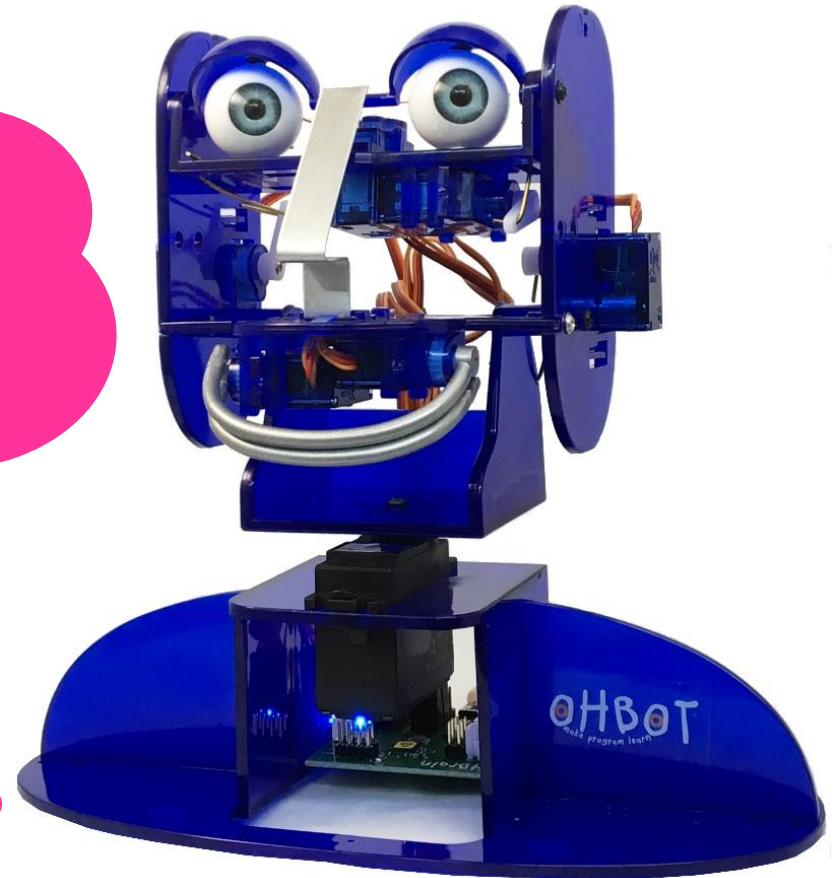


Lesson 2: Oh Poet

I can use a list in a program



What is a list?
What are lists
used for?



BBQ SHOPPING LIST

SAUCE/GARNISH

- Burger Relish
- Ketchup
- BBQ Sauce
- Mayonaise
- Salad Dressing

SIDES

- Potato Salad
- Coleslaw
- Chips
- Salad
- Corn On The Cob

EXTRAS

- Burger Buns
- Hot Dog Buns
- Wraps
- Napkins
- Skewers

VEGETARIAN

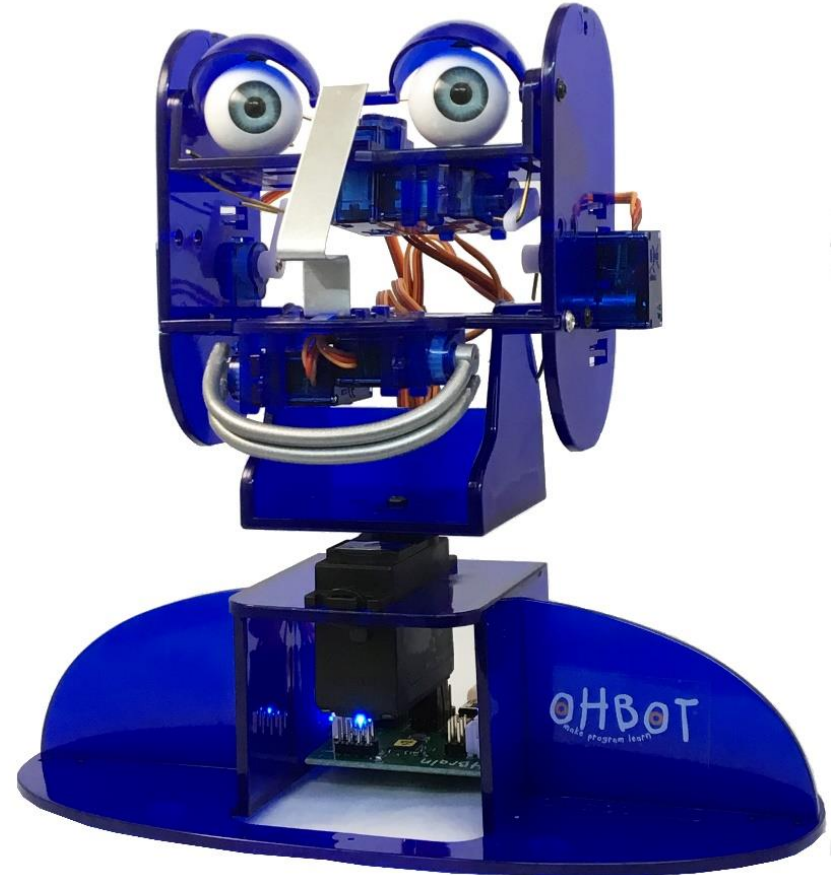
- Veggie Burgers
- Veggie Sausages
- BBQ Vegetables
- Baked Potato
- Halloumi

MEATS

- Burgers
- Sausages
- Chicken Thighs
- Salmon Fillet
- Chicken Drumsticks

DRINKS

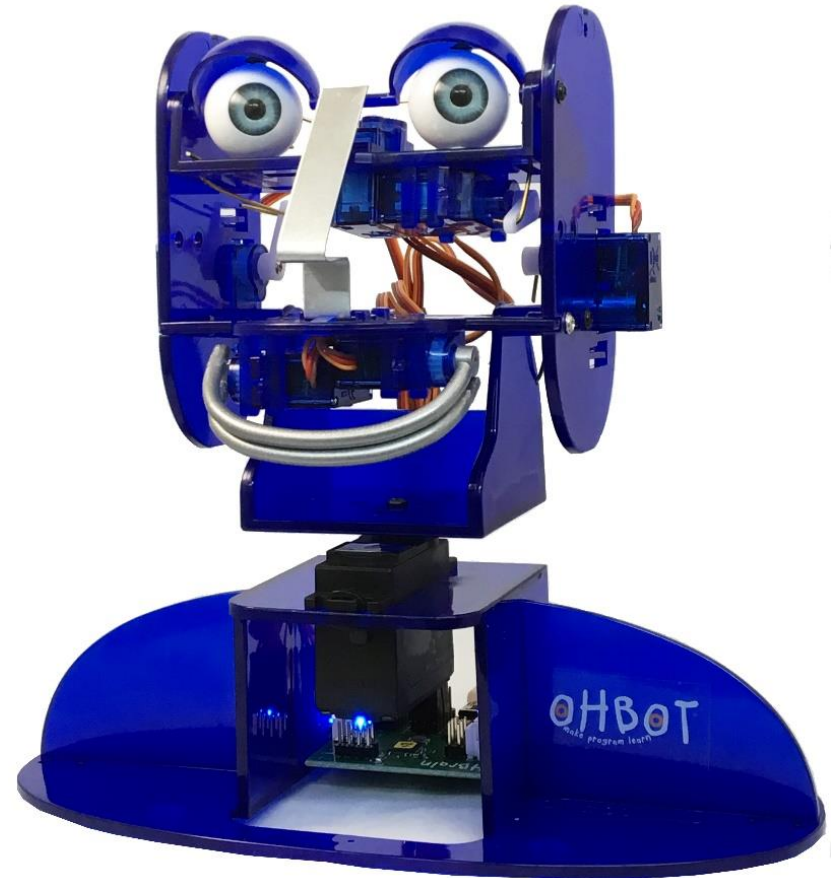
- Juice
- Beer
- Pimms
- Soft Drinks
- Water



Demonstration

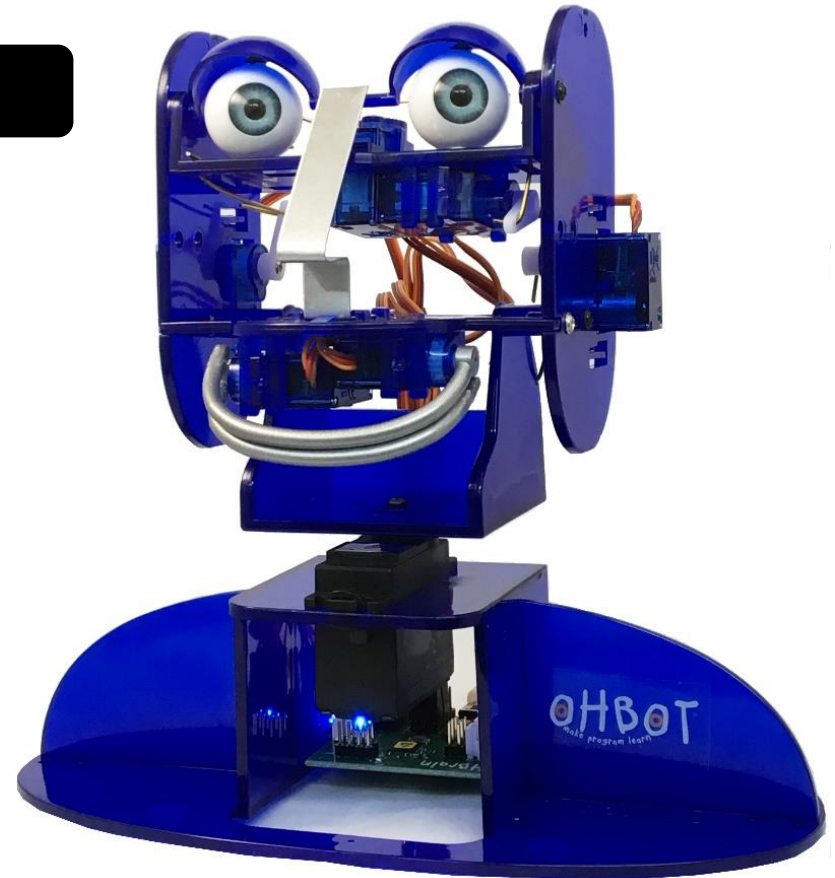
Together we will learn to make a list and add items to the list.

File save as – “List using code”



Demonstration: adding items to a list

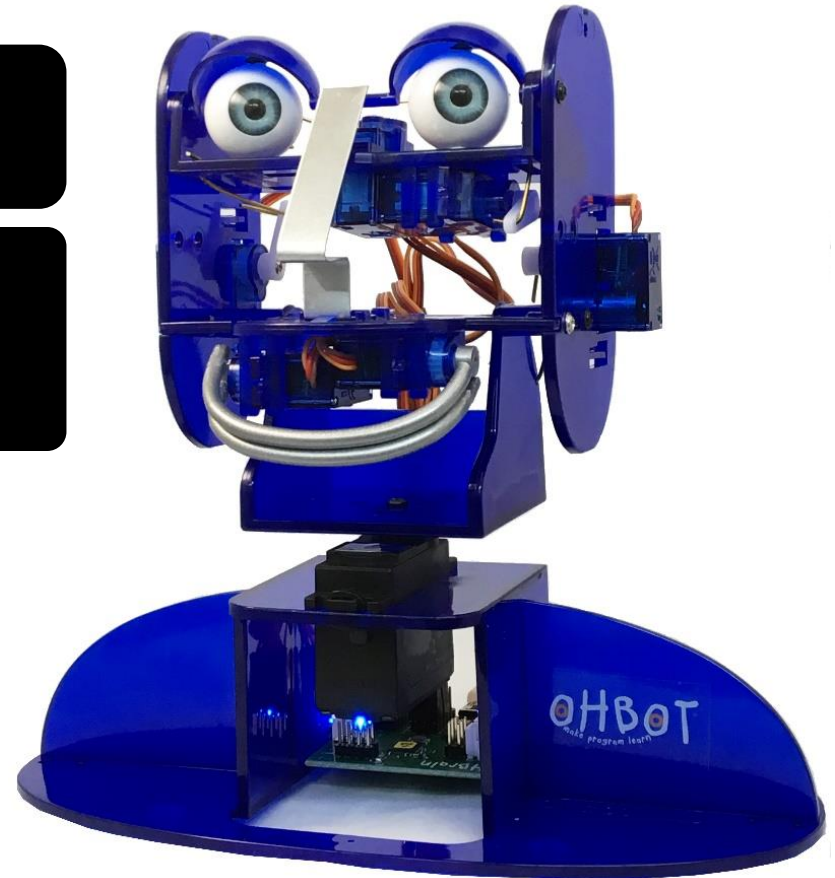
```
when clicked
add Ben to boys
wait 1 secs
add Dave to boys
wait 1 secs
add Sam to boys
wait 3 secs
say item random of boys until done
```



Demonstration: add items to a list using Ask

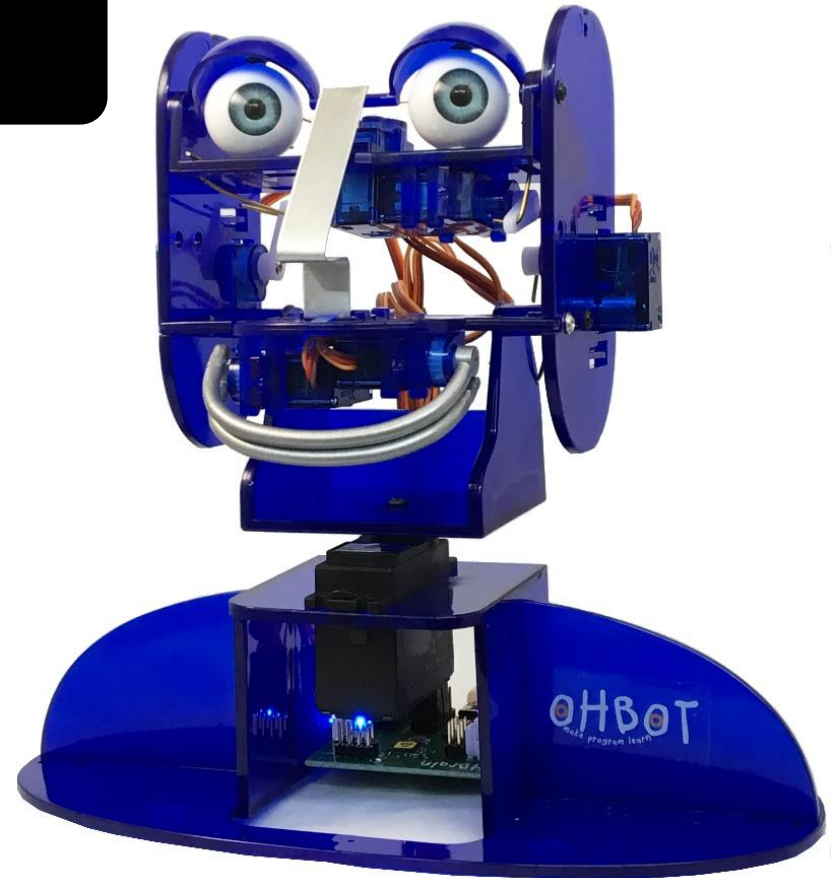
Together we will learn to make a list and add items to a list using the ask instruction

File save as – “List using ask”



Demonstration –add an item to a list using Ask

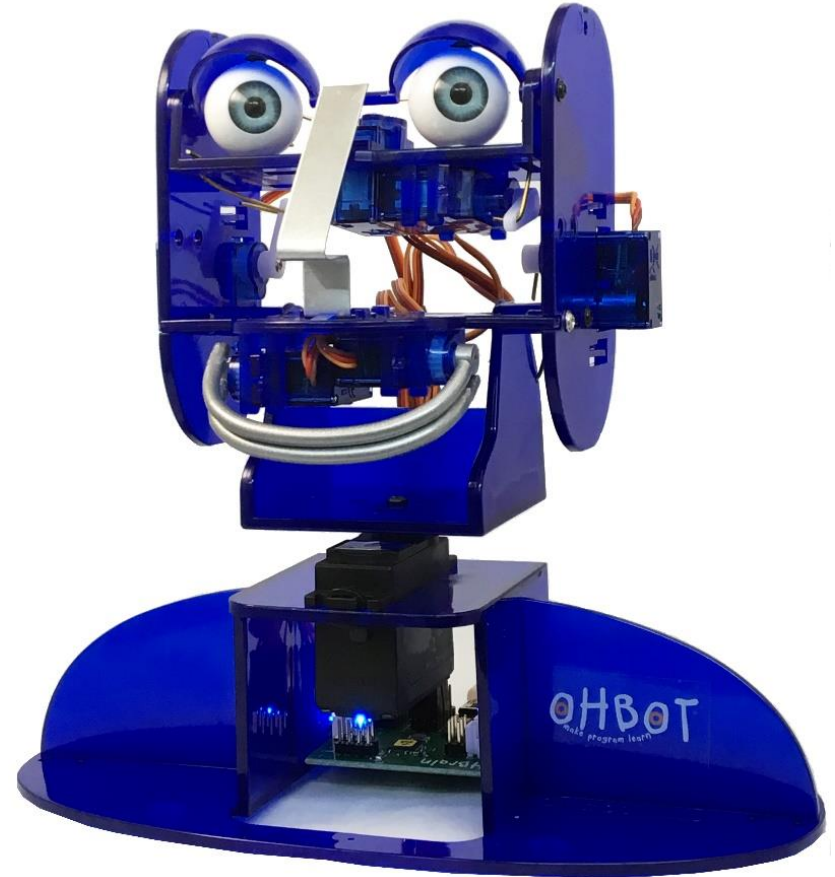
```
when clicked
repeat 4
  ask "Type a girls name to add to the list." and wait
  add answer to Girls names
  say answer until done
  wait 1 secs
say item random of Girls names until done
```



Activity 1

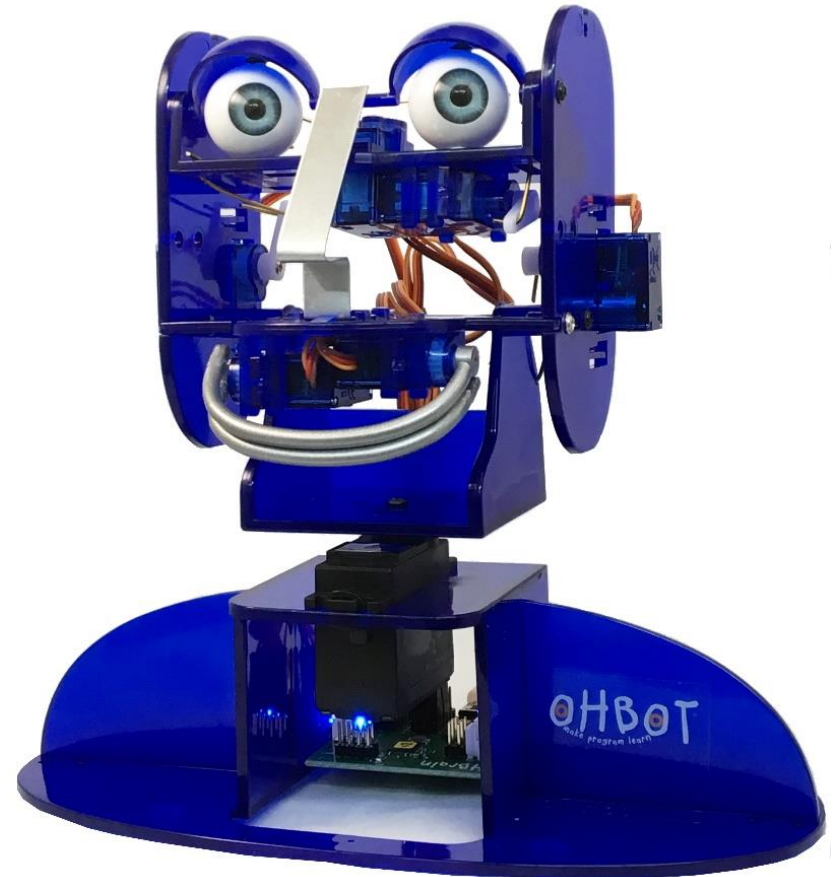
Can you write a program to make Ohbot ask the names of four children in the class and then pick one at random to win a special prize? Can you make Ohbot announce the winner too?

File save as "List



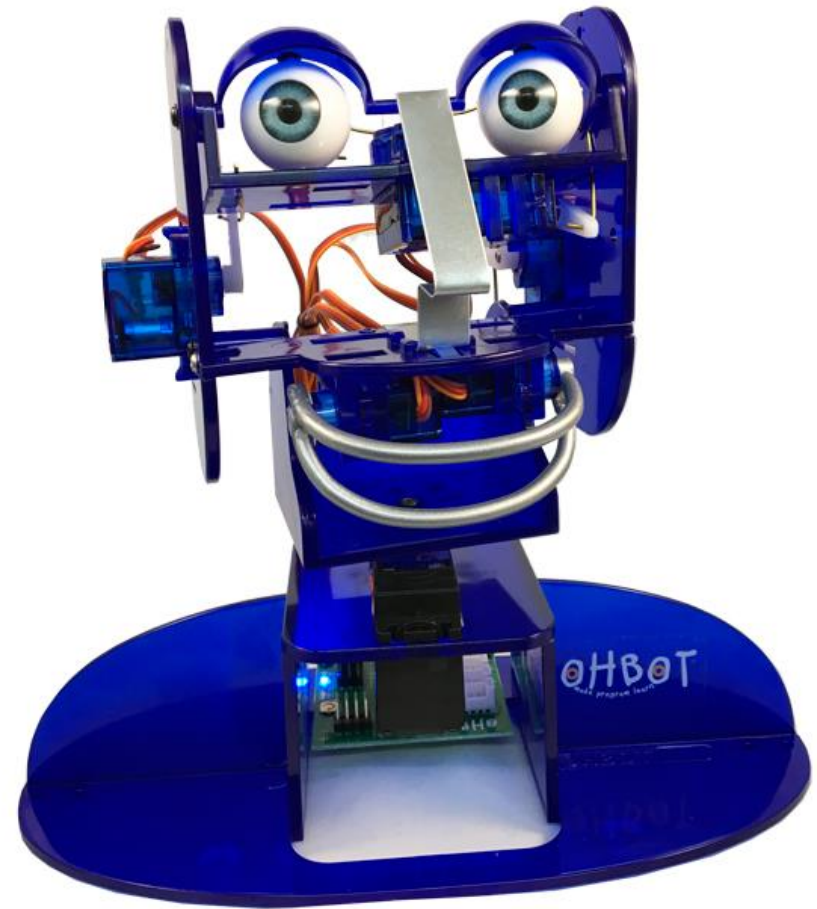
Example: Activity 1

```
when clicked
repeat 4
  ask Enter your name for the chance to win a prize and wait
  add answer to prize names
  say answer until done
  wait 1 secs
wait 1 secs
say The winner of the special prize is... until done
say item random of prize names until done
```



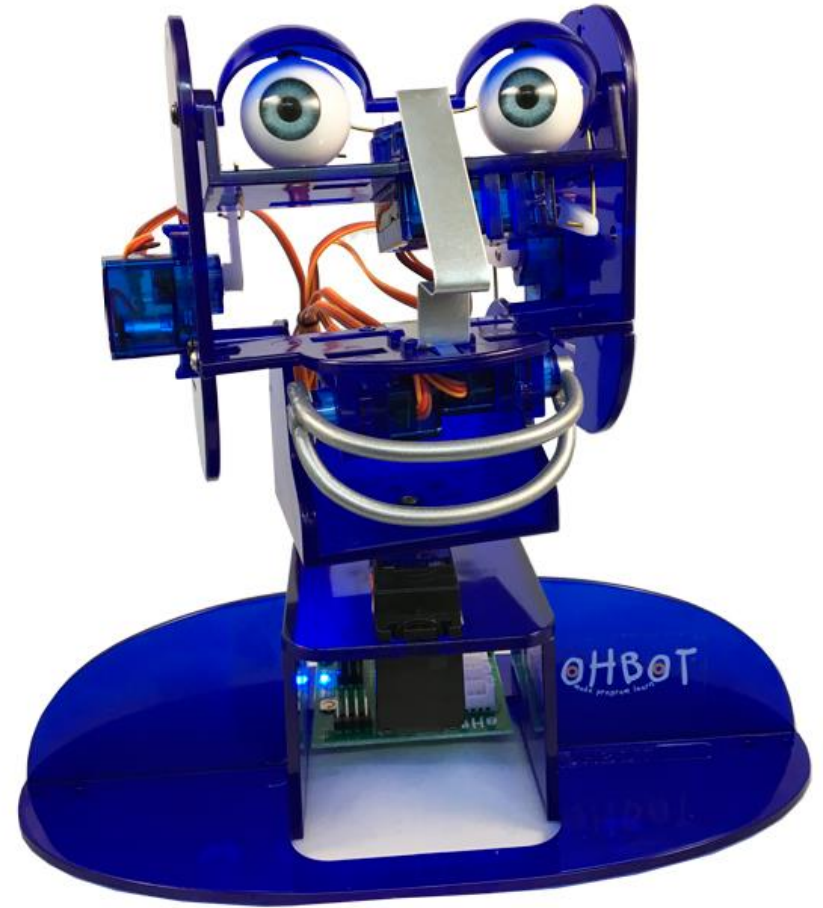
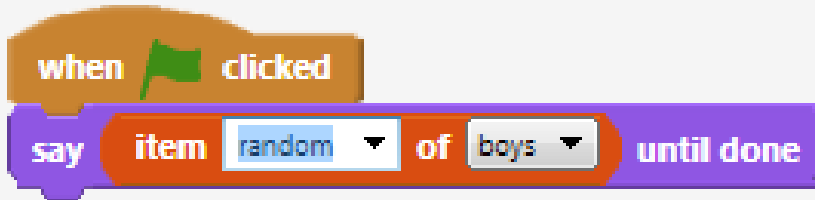
Together we will learn another way to enter items in a list.

File save as –typing directly into a list



Demonstration

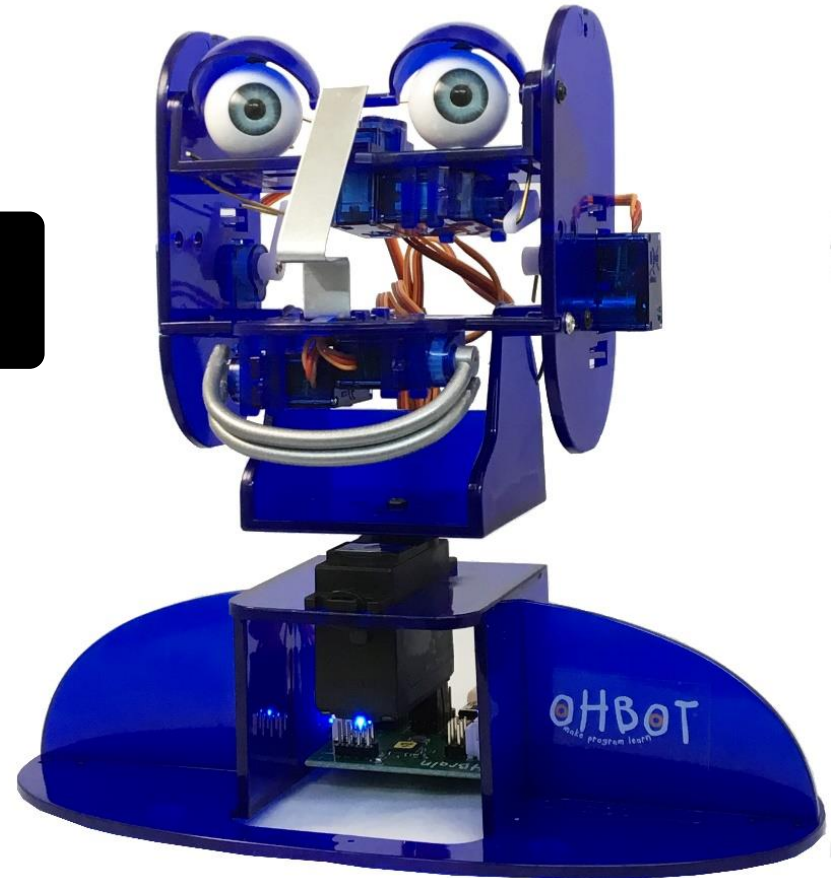
boys: John|Peter|Paul|Josh|michael|



Demonstration

Together we will write a program to make a two word poem generator

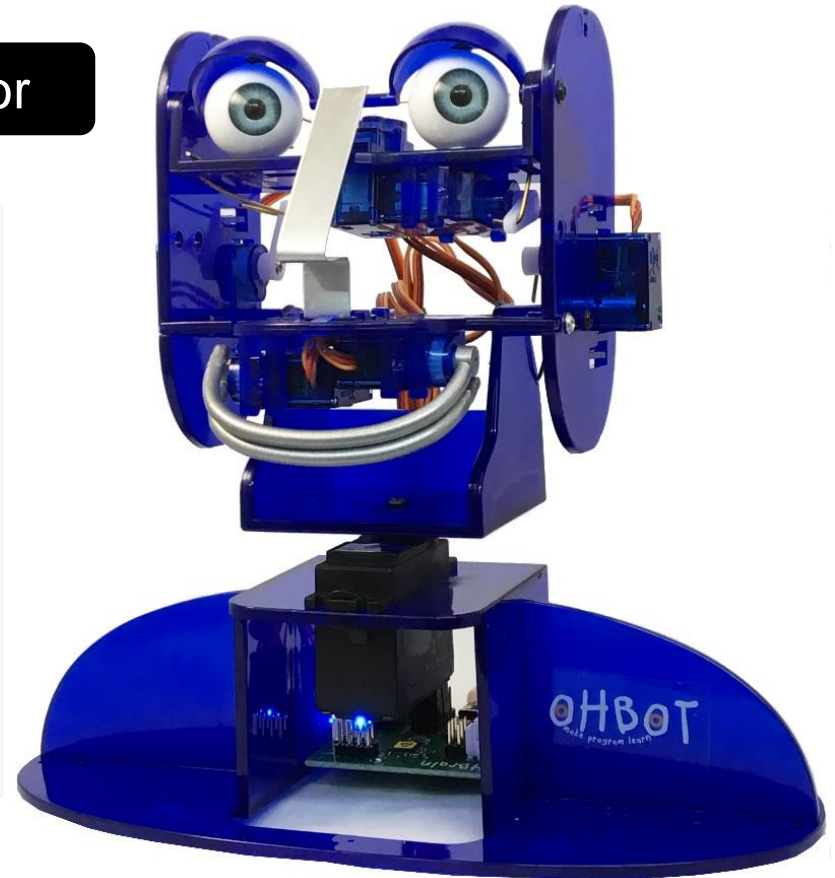
File, Save As – “current date”



Demonstration: two word poem generator

Animal: Antelope|Baboon|Chameleon|Dragonfly|Elephant

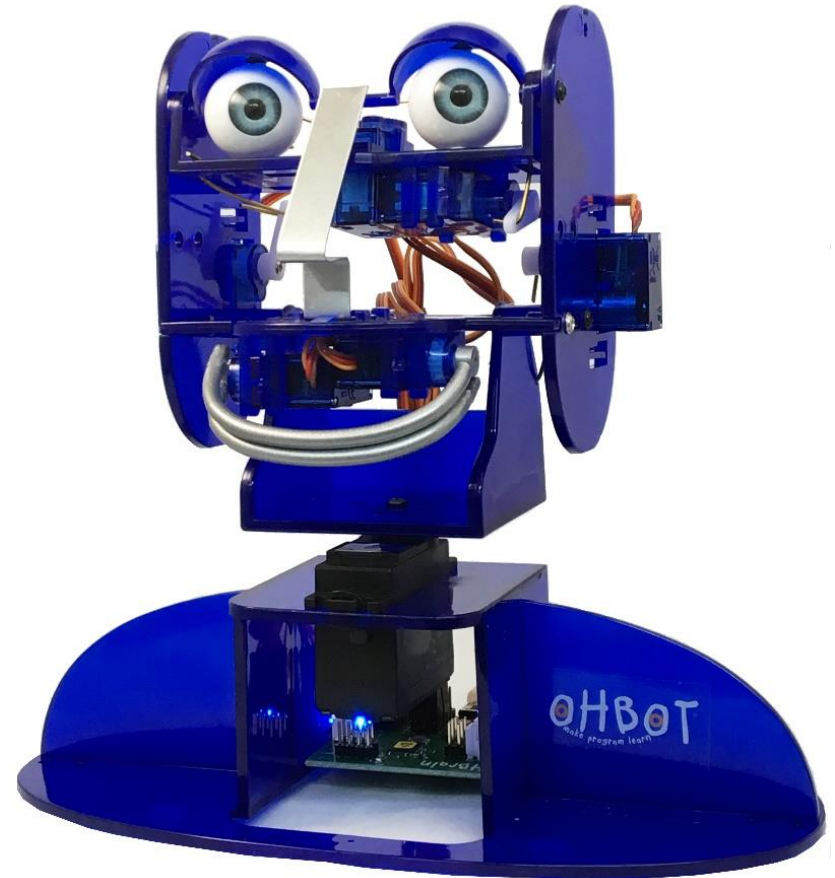
Adjective: Magnificent|cheeky|graceful|noisy|cute|



Activity 2

Can you write a program to make Ohbot generate a poem using three or more lists?

File save as "list poetry generator"

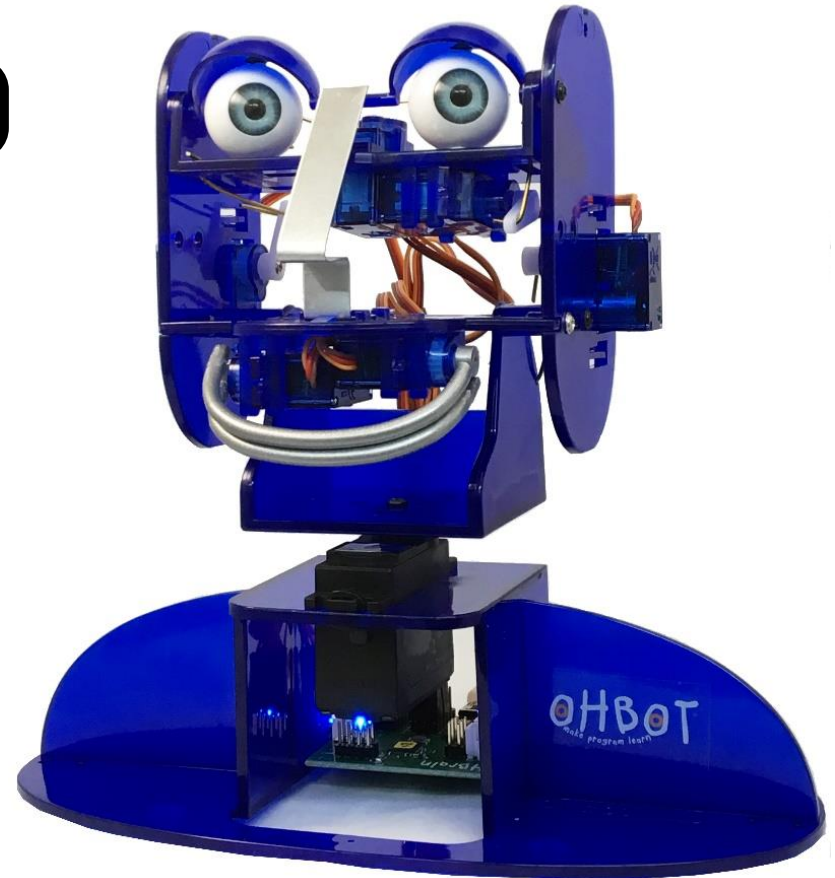


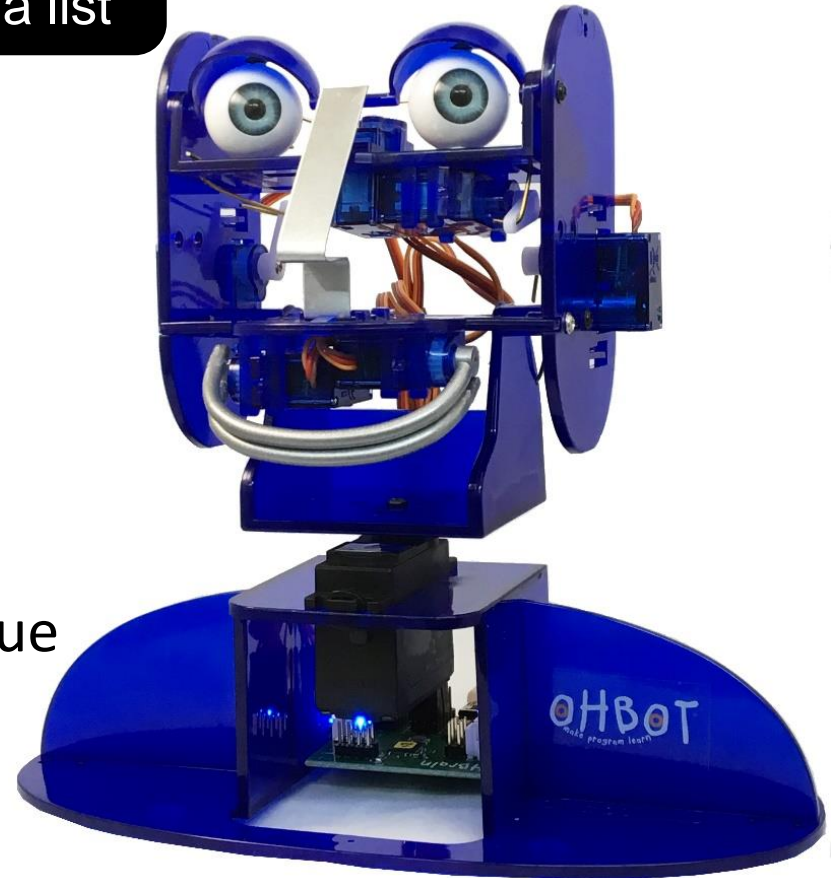
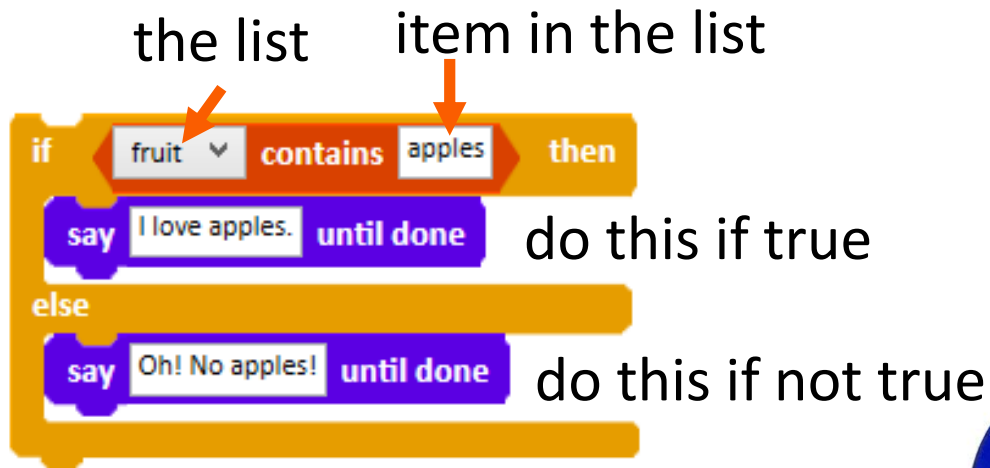
Example: three-list poetry generator

adverbs: gracefully|crazily|happily|exitedly

verbs: Jumps|speaks|walks|dances

Who: Queen|Teacher|Wizard|farmer

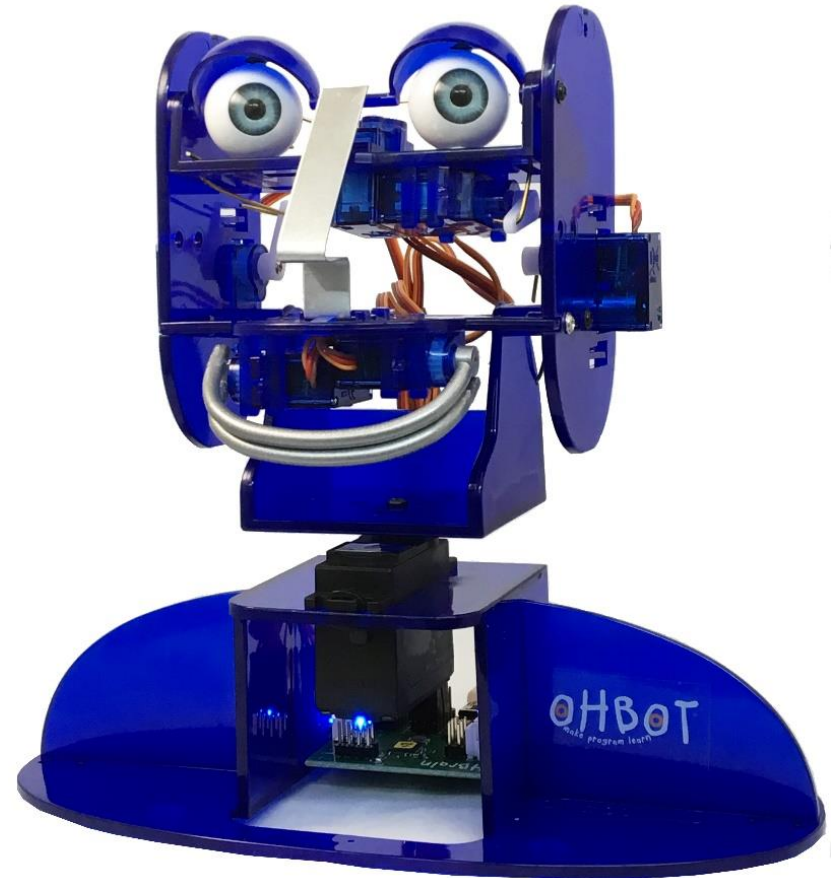


Demonstration – *If* to check contents of a list

Activity 3

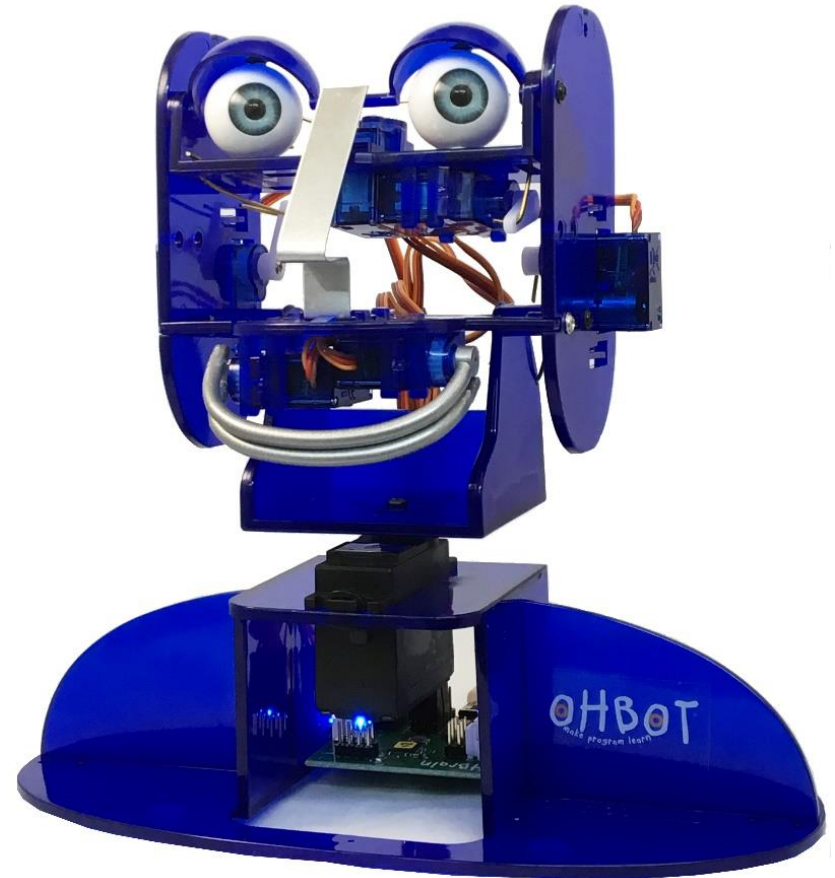
Can you write a program to make Ohbot ask for your 3 favourite fruits and then read this list out loud. Can you add an if conditional to make Ohbot respond if the list contains a particular type of fruit it likes?

File *save as* "list favourite fruit"



Activity 3 Example

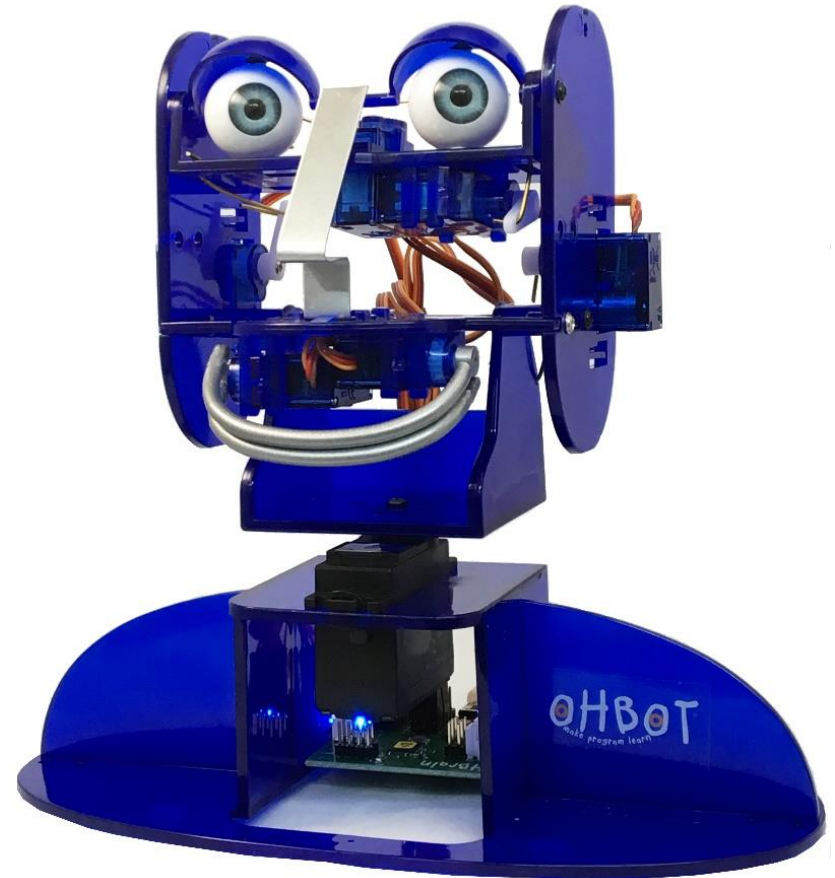
```
when clicked
  delete all of Fruit
  say Can you type in your three favourite fruits one at a time? until done
  repeat 3
    ask and wait
    add answer to Fruit
  say So your Favourite fruits are until done
  say item 1 of Fruit until done
  say item 2 of Fruit until done
  say item 3 of Fruit until done
  if Fruit contains apple then
    say I love apples too! until done
  else
    say I can't believe apples are not in your top 3 fruits! until done
```



Extension

Ohbot also has two favourite fruits. Can you alter your code so that Ohbot responds only when both fruit it likes appear as items on the list.

File save as “list favourite fruit”



Extension Example

```

when clicked
delete all of fruit
say Can you type in your three favourite fruits, one at a time? until done
repeat 3
ask and wait
add answer to fruit
say So your favourite fruits are until done
say item 1 of fruit until done
say item 2 of fruit until done
say item 3 of fruit until done
if fruit contains peach and fruit contains orange and fruit contains mango then
say Wow! Those are my favourites too. until done
else
say Have you ever considered how delicious peaches, oranges and mangos are? until done
  
```

