Zion International School of Phnom Penh

សាលាអន្តរជាតិ ហ្សាយអិន ភ្នំពេញ

ZION INTERNATIONAL SCHOOL OF PHNOM PENH

"GROWING THE FUTURE ONE CHILD AT A TIME"

Semester 1 Test
Academic Year 2024-2025
Date: December 10ᵗʰ, 2024

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		Student's Name:
Subject:	Cambridge Computing	
Level:	Grade 5	
Time:	13:15-14:00 PM	
Duration:	45 minutes	

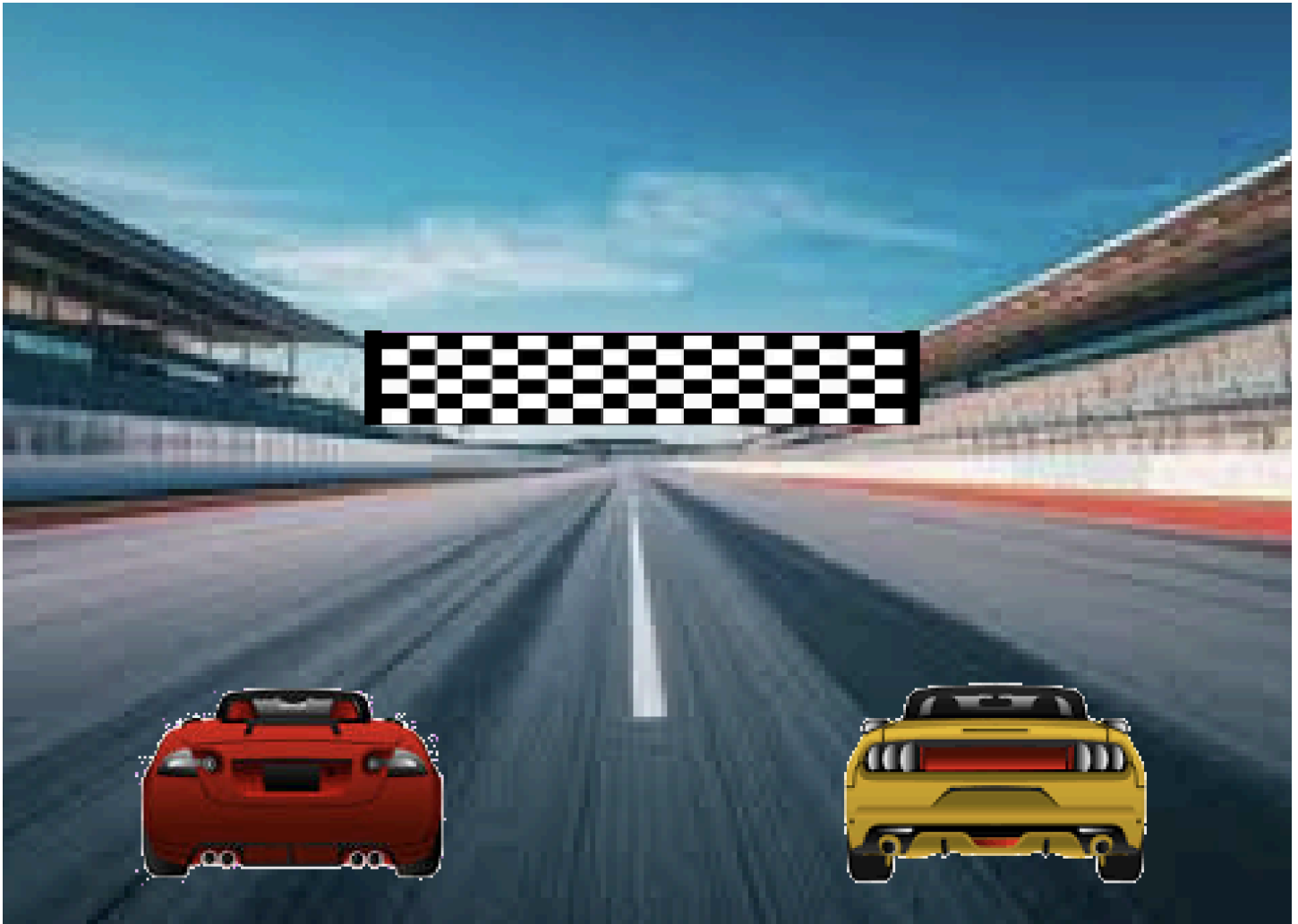## Instruction

I. Login to your scratch account
II. Go to class studio, open **Starter Grade5-Semester1-Test**, click on the project then **remix** or go to the starter project: https://scratch.mit.edu/projects/1106890700/
III. Follow the instructions to complete the project
IV. After you complete the project, click on **Share** then **Add to Studio**, add to **Grade5-Semester1-Test**

Topic

We will code a car race game. Each car will only race **if** a key is pressed. The static flag will select which car wins and change to the right winning costume.
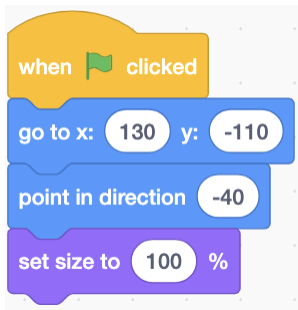

There are 3 tasks:

1. Code for the yellow car
2. Code for the red car
3. Code for the flag

Code for the yellow car

The reset code for the yellow car is as follows.

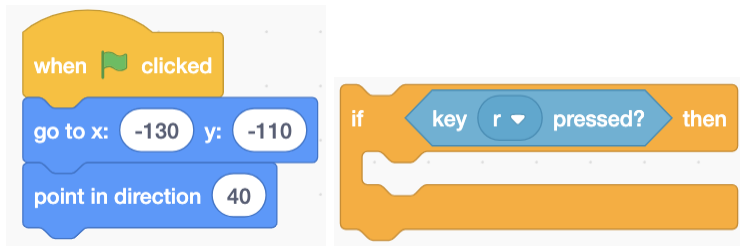Add the following code underneath:

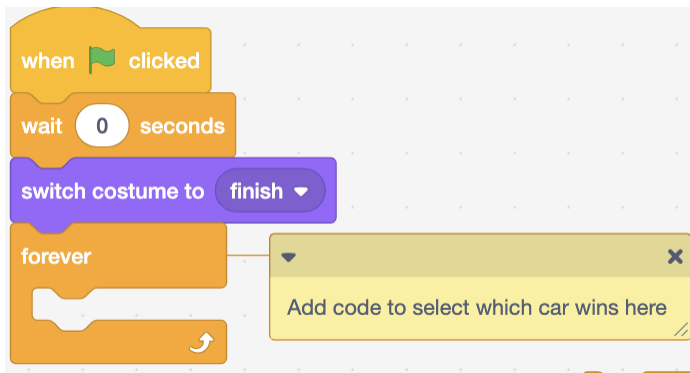| 1.	Forever
1.1.	If <key "y" pressed>
1.1.1.	Move 5 steps
1.1.2.	Change size by -2.5
1.1.3.	Wait 0.1 seconds

Code for the red car

The code for the red car is the same as the yellow car, apart from the reset position, and the key that is tested. You can drag the code from the yellow car to the red car, and make the following changes:
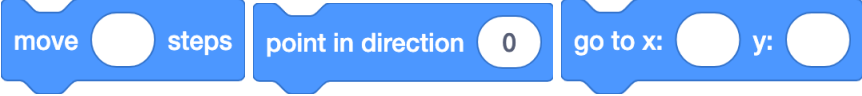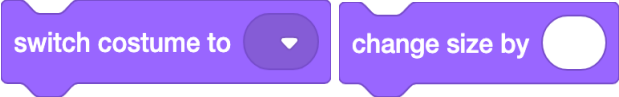
Code for the flag

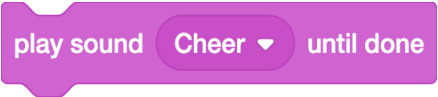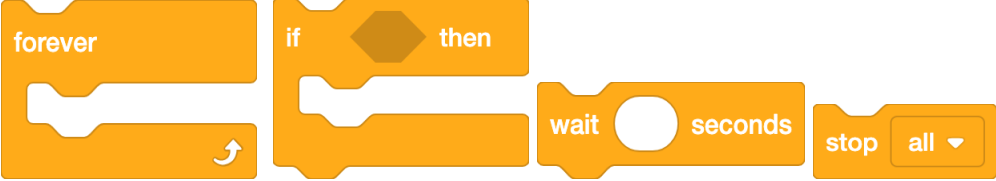The flag will if it touches a car, and select which winning costume to change to.
Add the following code:

Add the following code in to the Forever loop, **for each car**:

1.	If <touching "red racecar">
1.1.	Switch costume to "red wins"
1.2.	Play sound "Cheer" until done
1.3.	Stop all

You will use the following blocks:

Motion	move ( ) steps point in direction (0) go to x: ( ) y: ( )
Looks	switch costume to (▼) change size by ( )
Sound	play sound (Cheer ▼) until done
Control	forever if ⬡ then wait ( ) seconds stop (all ▼)
Sensing	touching (mouse-pointer ▼) ? key (space ▼) pressed?