VEX V5

Student Name: CompCode

Assignment:

Notes:

Project Name: FirstComp

Project Type: Blocks

Date: Thu Dec 15 2022

spin frontRight forward for .45 turns ◄ and don't wait

spin frontRight reverse for .45 turns ◄ and don't wait

spin frontRight reverse for .45 turns ◄ and don't wait

spin frontRight forward for .45 turns ◄ and don't wait

```
define DoubleRoller

rollerSpin

wait until  frontRight  is done?

45right

wait until  frontRight  is done?

forward

wait until  frontRight  is done?

45Left

wait until  frontRight  is done?

backup

wait until  frontRight  is done?

rightStrafe

wait until  frontRight  is done?

rollerSpin
```

```
define rightStrafe

spin  frontRight  reverse  for  .4  turns  ◄ and don't wait
spin  backRight   forward  for  .4  turns  ◄ and don't wait
spin  frontLeft   forward  for  .4  turns  ◄ and don't wait
spin  backLeft    reverse  for  .4  turns  ◄ and don't wait
```
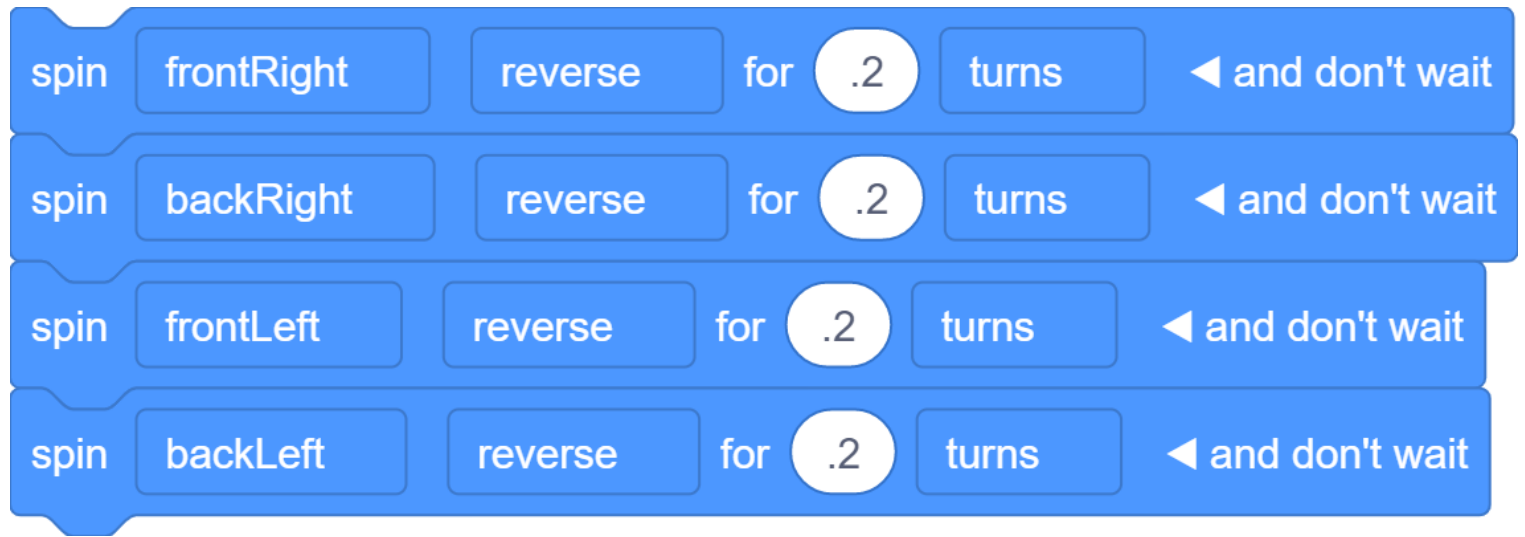
```
define backup

spin  frontRight   reverse   for  .2   turns   ◄ and don't wait
spin  backRight    reverse   for  .2   turns   ◄ and don't wait
spin  frontLeft    reverse   for  .2   turns   ◄ and don't wait
spin  backLeft     reverse   for  .2   turns   ◄ and don't wait
```

```
spin  frontRight   reverse   for  .2  turns   ◄ and don't wait
spin  backRight    reverse   for  .2  turns   ◄ and don't wait
spin  frontLeft    reverse   for  .2  turns   ◄ and don't wait
spin  backLeft     reverse   for  .2  turns   ◄ and don't wait
```

when started

```
define  rollerSpin

set  frontRight  stopping to  brake

set  backRight  stopping to  brake

set  frontLeft  stopping to  brake

set  backLeft  stopping to  brake

spin  frontRight  reverse  for  .2  turns  ◀ and don't wait

spin  backRight  reverse  for  .2  turns  ◀ and don't wait

spin  frontLeft  reverse  for  .2  turns  ◀ and don't wait

spin  backLeft  reverse  for  .2  turns  ◀ and don't wait

wait until  < frontRight  is done? >

set  roller  velocity to  100  %

spin  roller  forward  for  .33  turns  ▶

wait until  < roller  is done? >

spin  frontRight  forward  for  .33  turns  ◀ and don't wait

spin  backRight  forward  for  .33  turns  ◀ and don't wait

spin  frontLeft  forward  for  .33  turns  ◀ and don't wait

spin  backLeft  forward  for  .33  turns  ◀ and don't wait
```

```
define rightTurn

spin frontRight forward for .98 turns ◄ and don't wait
spin backRight forward for .98 turns ◄ and don't wait
spin frontLeft reverse for .98 turns ◄ and don't wait
spin backLeft reverse for .98 turns ◄ and don't wait
```

```
define forward

spin  frontRight  reverse  for  7.7  turns  ◄ and don't wait

spin  backRight  reverse  for  7.7  turns  ◄ and don't wait

spin  frontLeft  reverse  for  7.7  turns  ◄ and don't wait

spin  backLeft  reverse  for  7.7  turns  ◄ and don't wait
```

when autonomous

rollerSpin

```
when driver control
forever
  set  frontRight  stopping to  hold
  set  backRight  stopping to  hold
  set  frontLeft  stopping to  hold
  set  backLeft  stopping to  hold
  set  frontLeft  velocity to  ( Controller1  3  position  +  Controller1  4  position  +  Controller1  1  position ) %
  spin  frontLeft  forward
  set  backLeft  velocity to  ( Controller1  3  position  -  Controller1  4  position  -  Controller1  1  position ) %
  spin  backLeft  forward
  set  frontRight  velocity to  ( Controller1  3  position  -  Controller1  4  position  +  Controller1  1  position ) %
  spin  frontRight  forward
  set  backRight  velocity to  ( Controller1  3  position  +  Controller1  4  position  -  Controller1  1  position ) %
  spin  backRight  forward
  if  ( Controller1  L1  pressed? )  then
    set  roller  velocity to  100  %
    spin  roller  forward
  else if  ( Controller1  L2  pressed? )  then
    set  roller  velocity to  100  %
    spin  roller  reverse
  else
    stop  roller
```

```
define rightside

set frontRight stopping to brake
set backRight stopping to brake
set frontLeft stopping to brake
set backLeft stopping to brake
spin frontRight reverse for 2.2 turns ◄ and don't wait
spin backRight forward for 2.2 turns ◄ and don't wait
spin frontLeft forward for 2.2 turns ◄ and don't wait
spin backLeft reverse for 2.2 turns ◄ and don't wait
wait until < frontRight is done?
spin frontRight reverse for .5 turns ◄ and don't wait
spin backRight reverse for .5 turns ◄ and don't wait
spin frontLeft reverse for .5 turns ◄ and don't wait
spin backLeft reverse for .5 turns ◄ and don't wait
wait until < frontRight is done?
set roller velocity to 100 %
spin roller forward for .33 turns ►
wait until < roller is done?
spin frontRight forward for .3 turns ◄ and don't wait
spin backRight forward for .3 turns ◄ and don't wait
spin frontLeft forward for .3 turns ◄ and don't wait
spin backLeft forward for .3 turns ◄ and don't wait
```

```
define leftTurn

spin  frontRight  reverse  for  .98  turns  ◄ and don't wait
spin  backRight   reverse  for  .98  turns  ◄ and don't wait
spin  frontLeft   forward  for  .98  turns  ◄ and don't wait
spin  backLeft    forward  for  .98  turns  ◄ and don't wait
```

define 45Left

spin frontRight reverse for .5 turns ◄ and don't wait

spin backRight reverse for .5 turns ◄ and don't wait

spin frontLeft forward for .5 turns ◄ and don't wait

spin backLeft forward for .5 turns ◄ and don't wait

```
define 180Turn

spin  frontRight  reverse  for  1.96  turns  ◄ and don't wait

spin  backRight  reverse  for  1.96  turns  ◄ and don't wait

spin  frontLeft  forward  for  1.96  turns  ◄ and don't wait

spin  backLeft  forward  for  1.96  turns  ◄ and don't wait
```

```
define 45right

spin  frontRight  forward  for  1.47  turns  ◄ and don't wait
spin  backRight   forward  for  1.47  turns  ◄ and don't wait
spin  frontLeft   reverse  for  1.47  turns  ◄ and don't wait
spin  backLeft    reverse  for  1.47  turns  ◄ and don't wait
```