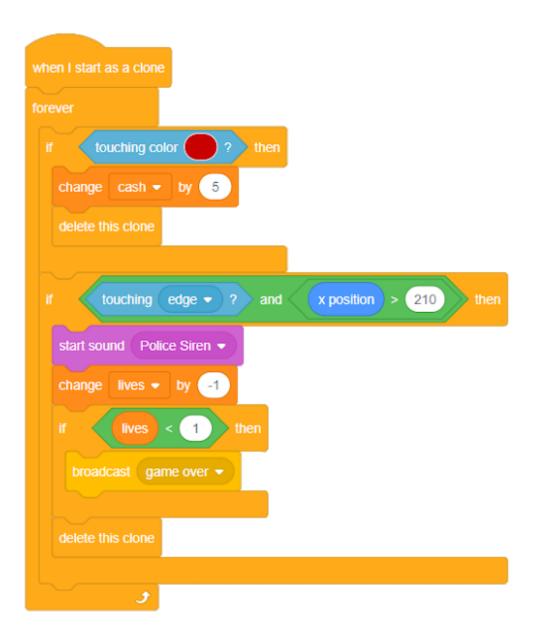


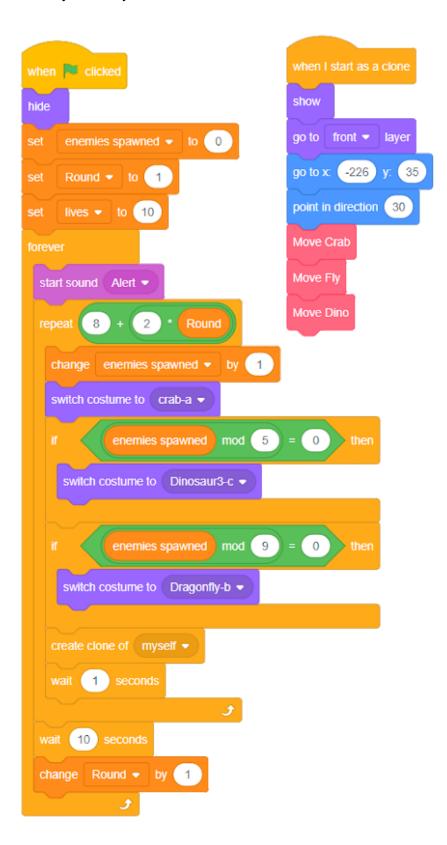
# TOWER DEFENCE

Today we're going to be coding a simple tower defence game with two kinds of weapons and enemies that move along a path. You can find the starter file for this project <a href="here">here</a>.

#### **ENEMY**



## ENEMY (CONT)



## ENEMY (CONT)

```
define Move Crab
                                           define Move Dino
      costume number ▼ = 1 then
                                                 move (0.375) + (0.125) * Round steps
                                             move 2 steps
  switch costume to hitbox left ▼
                                             switch costume to hitbox left 🕶
  if touching color ? then
                                             if touching color ? then
   turn C 5 degrees
                                               turn ( 5 degrees
   switch costume to hitbox right •
                                              switch costume to hitbox right 🕶
  if touching color ? then
                                              if touching color ? then
    turn 5 5 degrees
                                               turn 5 degrees
  switch costume to crab-a ▼
                                              switch costume to Dinosaur3-c ▼
```

```
define Move Fly

if costume number = 3 then

go to x: -240 y: pick random -100 to 100

point in direction 10

forever

repeat 40

turn (4 degrees)

move 2 steps

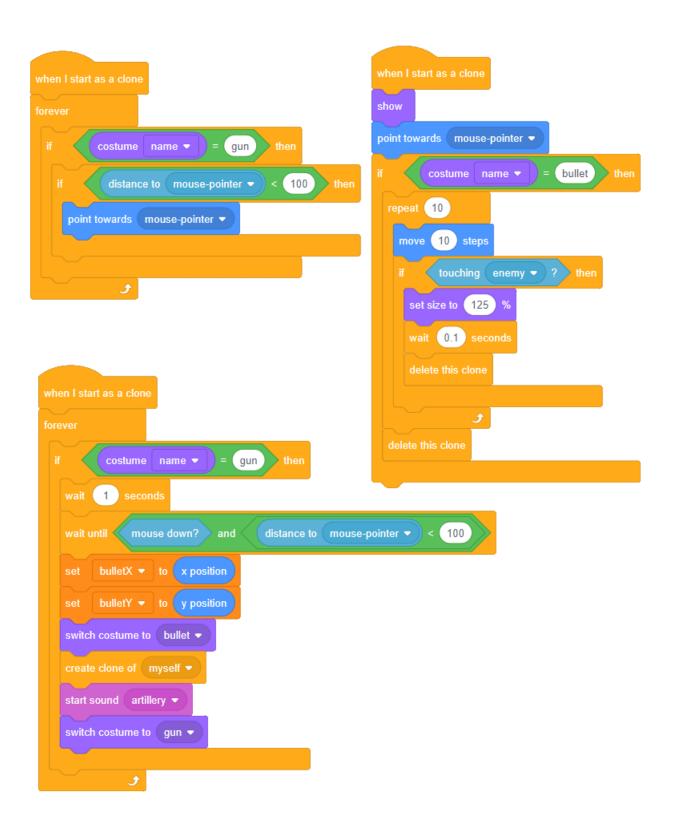
move 2 steps
```

#### **TURRET**

```
when 📜 clicked
                                                                            costume number ▼ ) = 2
                                                    cash > (99)
switch costume to menu ▼
                                             change cash ▼ by -100
go to x: (-220) y: (-160)
                                             switch costume to ∫ gun inactive ▼
set cash ▼ to 1000
                                             switch costume to ∫ menu 2 ▼
      touching (mouse-pointer ▼)? then
   switch costume to menu 2 🕶
                                                   costume number ▼ ) = (4)
   switch costume to menu -
                                             play sound ( Machine ▼ ) until done
    not costume name 

| a bullet |
 wait 0.1 seconds
 repeat until 
mouse down?
                            and < not < touching (road ▼ )?
  go to mouse-pointer ▼
       mouse down? and
                              touching road ▼ ? > then
    start sound Buzz Whir ▼
 start sound | Machine -
 switch costume to ∫ gun ▼
```

#### TURRET CONT



#### MISSILE

```
when 📜 clicked
                                       point in direction 90
set color ▼ effect to 0
                                       if cash > 499 and costume number ▼ = 2
go to x: (-157) y: (-160)
switch costume to menu 🔻
                                        change cash → by -500
                                        switch costume to missile base inactive •
     touching mouse-pointer • ? then
  switch costume to menu2 ▼
                                        switch costume to missile base 🕶
                                       if costume number ▼ = 4 then
  switch costume to menu •
                                        play sound Machine ▼ until done
if not costume name ▼ = missile then
 wait (0.1) seconds
  go to mouse-pointer ▼
  if mouse down? and touching road ▼ ?
    start sound Buzz Whir ▼
  start sound Machine 🔻
 switch costume to missile base ▼
```

## MISSILE (CONT)

```
costume name ▼ | = missile base | then
   set color ▼ effect to 120
   wait 6 seconds
  set color ▼ effect to 0
   wait until | mouse down? and <
                                distance to mouse-pointer ▼ < 100
   switch costume to missile 🕶
   switch costume to missile base ▼
if costume name ▼ = missile then
 repeat 120
  point towards | mouse-pointer ▼
   move 4 steps
   if touching enemy ▼ ? or distance to mouse-pointer ▼ < 10
    set size to 30 %
    start sound explosion ▼
    switch costume to explosion ▼
    wait 0.2 seconds
```

### GAME OVER

### ROAD

