```
import Khanr144.StartPage
import Khanr144.LearningModule
import Khanr144.PracticeModule
import Khanr144.Calculator
myShapes model =
  case model.state of
     Main -> {-This is the main starting page with the Trigflix logo and three buttons to go to the
learning, practice and graphing calculator module-}
       [Khanr144.StartPage.myShapes model |>group
       , group
             roundedRect 40 12 1
               |> filled (rgb 220 26 41)
               |> move (0,-25),
             text "Practice"
             > bold
              > sansserif
             > filled white
             > move (-21,-53)
             > scale 0.5
             |> notifyTap ToPracticeModule {-This transition takes us to practice module from the
main starting page-}
       , group
             roundedRect 40 12 1
                 |> filled (rgb 220 26 41)
                 |> move (-50,-25),
             text "Learn"
             > bold
             > sansserif
             |> filled white
             > move (-115,-53)
             |> scale 0.5
             > notifyTap ToLearningModule {-This transition takes us to learning module from the
main starting page-}
       , group
             roundedRect 40 12 1
              |> filled (rgb 220 26 41)
              > move (50,-25),
             text "Graphing"
               |> bold
               > sansserif
               |> filled white
               |> move (97,-58.5)
               |> scale 0.4,
               text "Calculator"
               > bold
               l> sansserif
               |> filled white
               |> move (95,-73)
               > scale 0.4
             > notifyTap ToCalculator {-This transition takes us to graphing calculator module
from the main starting page-}
     Learn -> {-This state is the learning module-}
```

```
L1MSG
       , group
           [roundedRect 20 7 2.5
                 |> filled (hsl (degrees 0) 0.629 0.218)
                 >addOutline (solid 0.2) white
              text "Back"
                  l> centered
                  > size 6
                  > filled white
                 |> move(0, -2)|
             |> move (-62, -50)
             > notifyTap LearnToMain {-This transition takes us from learning module to the main
start page-}
             |> if model.l1model.screen == 1 then makeTransparent 1 else (move (-130,-45))
       {-The back button will only appear if the 'screen' variable in the imported learning module
is 1 otherwise it will be shifted out of the screen-}
     Practice -> {-This state is the practice module-}
       [Khanr144.PracticeModule.myShapes model.l2model |> group |> GraphicSVG.map
L2MSG
       , group
           [rect 16 9
              > filled black
              |> move(-2,0),
              triangle 9
               > filled black
               > rotate (degrees 60)
               > move (-10,0)
             |> scale 0.8
             |> move(-80,-45)
             > notifyTap PracticeToMain {-This transition takes us from practice module to the
main start page-}
             |> if model.l2model.screen == 1 then makeTransparent 1 else (move (-130,-45))
       {-The back button will only appear if the 'screen' variable in the imported practice module
is 1 otherwise it will be shifted out of the screen-}
     Calculator -> {-This state is the graphing calculator module-}
       [ Khanr144.Calculator.myShapes model.l3model |> group |> GraphicSVG.map L3MSG
       , group
           [rect 16 9
              |> filled black
              l > move(-2,0),
              triangle 9
               > filled black
               > rotate (degrees 60)
               |> move (-10,0)
             |> scale 0.8
             |> move(-70,-45)
             > notifyTap CalculatorToMain {-This transition takes us from graphing calculator
module to the main start page-}
             |> if model.l3model.screen == 1 then makeTransparent 1 else (move (-130,-45))
       {-The back button will only appear if the 'screen' variable in the imported graphing
calculator module is 1 otherwise it will be shifted out of the screen-}
```

[Khanr144.LearningModule.myShapes model.l1model |> group |> GraphicSVG.map

```
{-declaring and naming all the transitions and msgs-}
type Msg = Tick Float GetKeyState
      ToLearningModule
      LearnToMain
      ToPracticeModule
      PracticeToMain
      ToCalculator
      CalculatorToMain
      L1MSG Khanr144.LearningModule.Msg {--variants created to help import other modules-}
      L2MSG Khanr144.PracticeModule.Msg
     L3MSG Khanr144.Calculator.Msg
{-declaring and naming all the states-}
type State = Main
       Learn
       Practice
      Calculator
{-updating the model using the transitions and msgs mentioned above-}
update msg model =
  case msg of
    Tick t _ ->
       { model | time = t }
    ToLearningModule ->
       case model.state of
         Main ->
            { model | state = Learn }
         otherwise ->
            model
    LearnToMain ->
       case model.state of
         Learn ->
            { model | state = Main }
         otherwise ->
            model
    ToPracticeModule ->
       case model.state of
         Main ->
            { model | state = Practice }
         otherwise ->
            model
    PracticeToMain ->
       case model.state of
         Practice ->
           { model | state = Main }
         otherwise ->
            model
    ToCalculator ->
       case model.state of
         Main ->
            { model | state = Calculator }
         otherwise ->
            model
    CalculatorToMain ->
```

```
case model state of
          Calculator ->
            { model | state = Main }
         otherwise ->
            model
    L1MSG Imsg -> { model | I1model = Khanr144.LearningModule.update Imsg model.I1model
     L2MSG Imsg -> { model | I2model = Khanr144.PracticeModule.update Imsg model.I2model
     L3MSG Imsg -> { model | I3model = Khanr144.Calculator.update Imsg model.I3model
{-declaring the types for all variables-}
type alias Model =
  { time : Float
  , state : State
  , I1model: Khanr144.LearningModule.Model
  , I2model : Khanr144.PracticeModule.Model
  , I3model : Khanr144.Calculator.Model
  }
{-initializing all the varibales-}
init: Model
init = \{ time = 0 \}
    , state = Main {-initial state will be the Main state-}
   {-imported modules will be initialized to their initial definitions that is done in their own
seperate module-}
   , I1model = Khanr144.LearningModule.init
   , I2model = Khanr144.PracticeModule.init
   , I3model = Khanr144.Calculator.init
main = gameApp Tick { model = init, view = view, update = update, title = "Game Slot" }
view model = collage 192 128 (myShapes model)
```