Programming Exercise 3-6

```python
# Global constant for body mass
BODY_MASS_MULTIPLIER = 703

# main module
def main():
    # Local variables
    weight = 0.0
    height = 0.0
    BMI = 0.0

    # Get the weight
    weight = float(input("Enter the weight in pounds: "))

    # Get the height
    height = float(input("Enter the height in inches: "))

    # Calculate the body mass
    BMI = weight * (BODY_MASS_MULTIPLIER/ (height* height))

    # print body mass
    showBMI(BMI)



# The showBMI module accepts BMI as argument and displays the
# body mass indicator
def showBMI(BMI):
    print ("Body Mass Indicator: ", format(BMI, '.2f'))
```

main()

```
main()
  ↓
Declare
Weight, Height, BMI
  ↓
getWeight
(Weight)
  ↓
getHeight
(Height)
  ↓
setMass
(Weight, Height, BMI
  ↓
showBMI
(BMI)
  ↓
End
```

getWeightl (Ref inputWeight)

```
getWeightl
(Ref inputWeight)
  ↓
Display "Enter
the weight"
  ↓
Input
inputWeight
  ↓
Return
```

getWeightl (Ref inputHeight)

```
getWeightl
(Ref inputHeight)
  ↓
Display "Enter
the height"
  ↓
Input
inputHeight
  ↓
Return
```

setMass (Weight, Height, BMI)

```
setMass
(Weight, Height, BMI)
  ↓
BMI = Weight *
(BODY_MASS_MULTIPLIER/
(Height* Height))
  ↓
Return
```

showBMI(BMI)

```
showBM
I(BMI)
  ↓
Display
"Body Mass Indicator: ", BMI
  ↓
Return
```

Global Constant Real
BODY_MASS_MULTIPLIER