Programming Exercise 3-3

```python
# Global constants for the percent of replacement cost
REPLACE_PERCENT = 0.08

# main def
def main():
    # Local variables
    replace= 0.0
    minInsure = 0.0

    # Get the replacement cost
    replace = float(input("Enter the replacement amount: "))

    # Calculate the insurance amount
    minInsure = replace * REPLACE_PERCENT

    # print information about the insurance
    showInsure(replace, minInsure)


# The showInsure function accepts the replace value
# and the minimum recommended insurance as arguments
# and displays the transaction information.
def showInsure (replace, minInsure):
    print ("Replacement cost: ", format(replace, '.2f'))
    print ("Percent insured: ", REPLACE_PERCENT)
    print ("Minimum insurance: ", format(minInsure, '.2f'))
```

```
┌─────────────────────────┐
│   Global Constant Real  │
│     REPLACE_PERCENT     │
└─────────────────────────┘
```

main()

↓

```
┌──────────────────────┐
│      Declare         │
│  replace, minInsure  │
└──────────────────────┘
```

↓

```
│ │  getReplace  │ │
│ │  (replace)   │ │
```

↓

```
│ │   setInsure          │ │
│ │  (replace, minInsure)│ │
```

↓

```
│ │   showInsure         │ │
│ │  (replace, minInsure)│ │
```

↓

End

---

getReplace
(Ref inputReplace)

↓

Display "Enter the replacement amount."

↓

Input inputReplace

↓

Return

---

setInsure (replace, Ref minInsure)

↓

Set minInsure = replace * REPLACE_PERCENT

↓

Return

---

showSale
(replace, minInsure)

↓

Display
"replacement cost: $", replace
"percent insured: ", REPLACE_PERCENT
"minimum insurance: ", minInsure

↓

Return