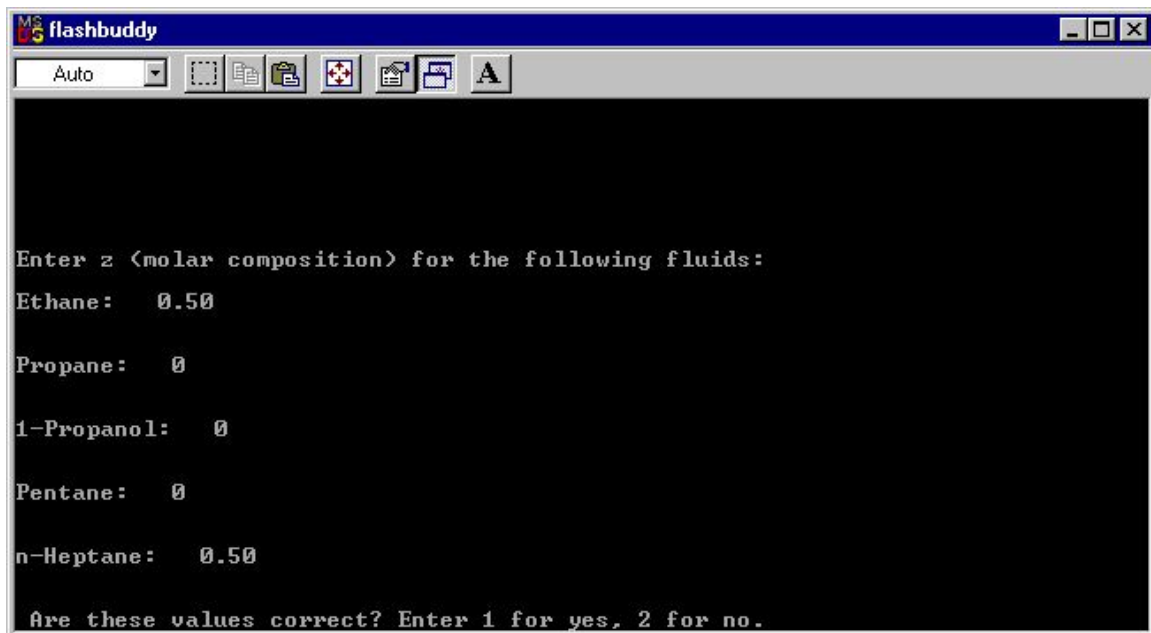Programming Project Screen Displays

CHEN 358
John Hillert
Section B

Redlich-Kwong #1

```
flashbuddy                                                    _ □ ✕
  Auto        ▼    ▤ 🖹 📋 ✛   📄🖨 A

Enter T in Kelvin:     350


Enter P in bar:    5


Enter number of desired EOS:

1    ----    Redlich-Kwong
2    ----    Soave-Redlich-Kwong
3    ----    Peng-Robinson

1

Enter max iterations: 100_
```

```
flashbuddy                                                    _ □ ✕
  Auto        ▼    ▤ 🖹 📋 ✛   📄🖨 A




Enter z (molar composition) for the following fluids:

Ethane:    0.50

Propane:    0

1-Propanol:    0

Pentane:    0

n-Heptane:    0.50

 Are these values correct? Enter 1 for yes, 2 for no.
```
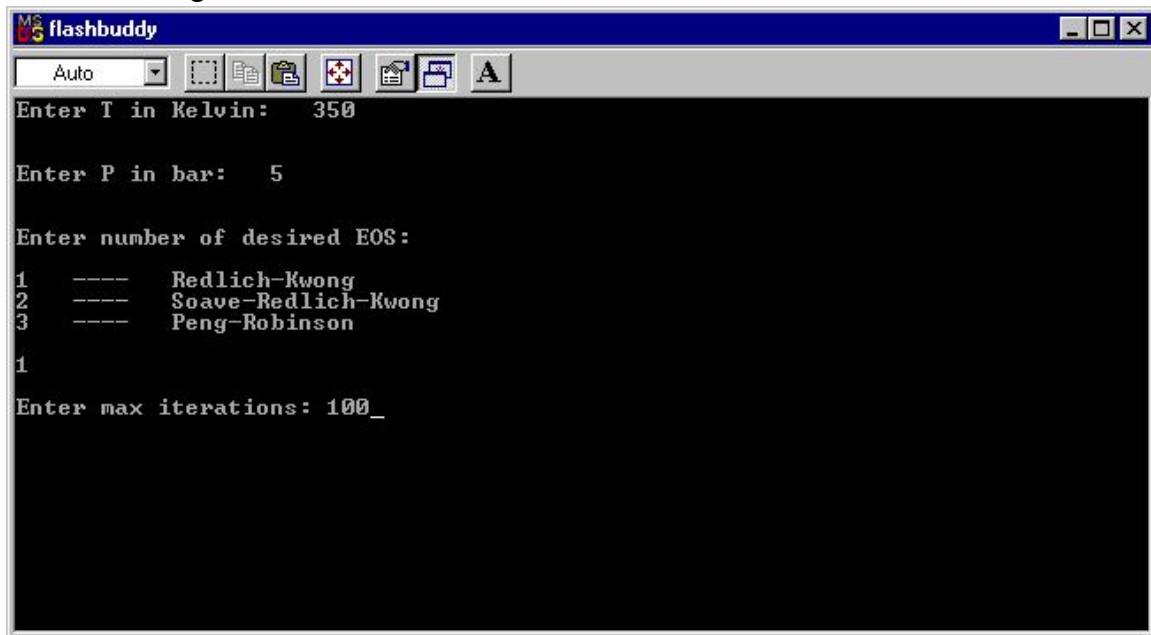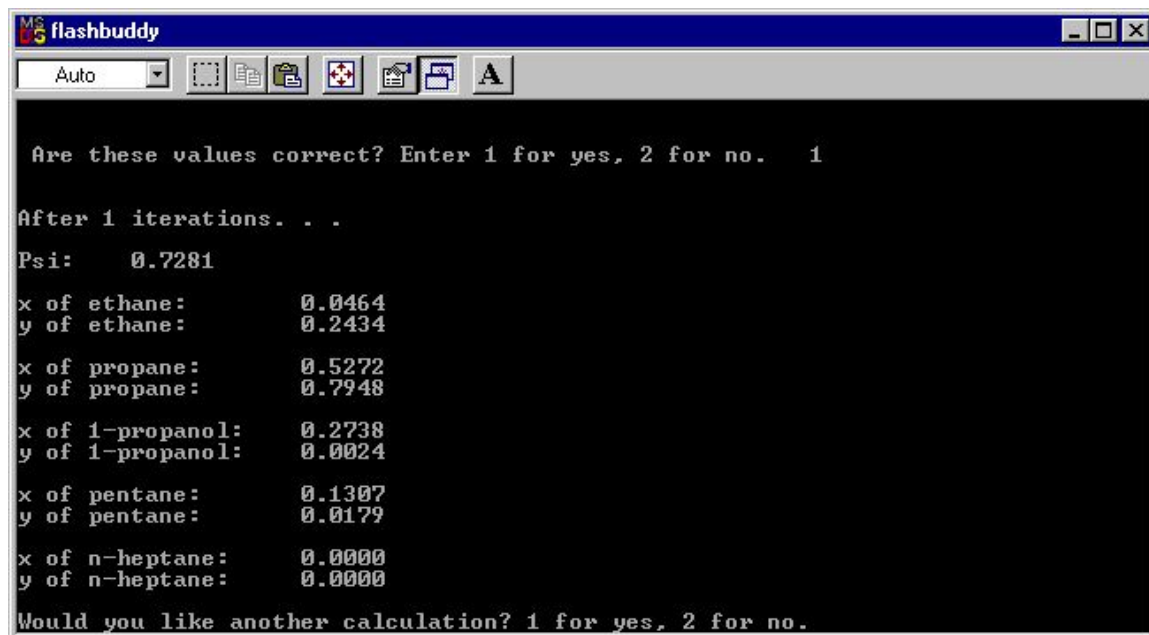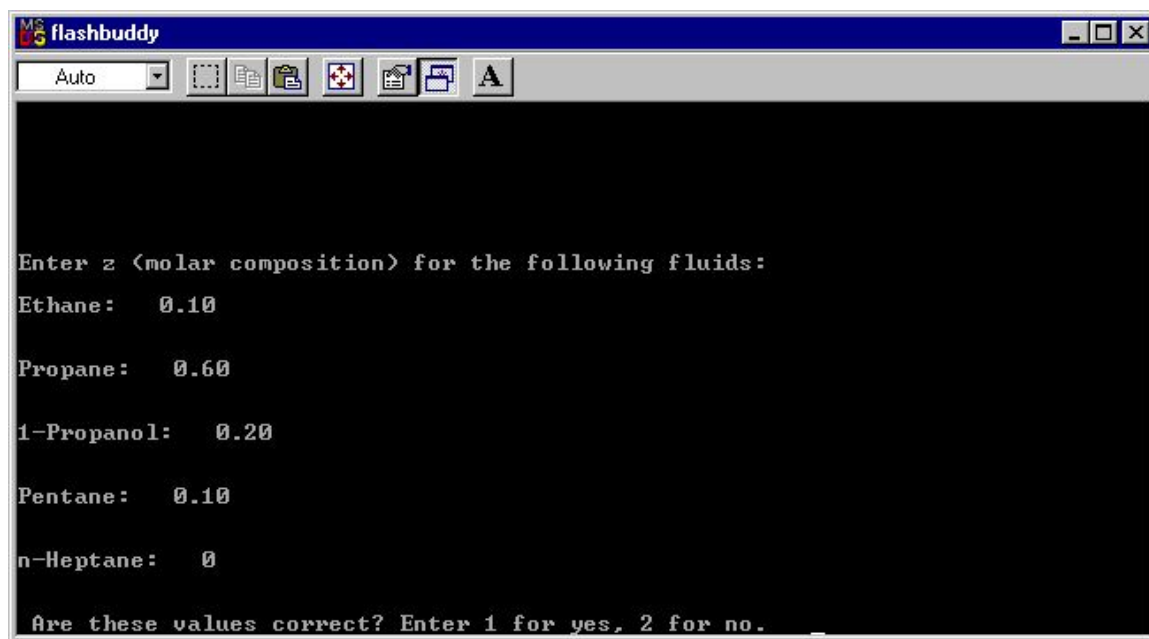
```
flashbuddy

  Are these values correct? Enter 1 for yes, 2 for no.    1

After 0 iterations. . .

Psi:     0.5000

x of ethane:          0.0987
y of ethane:          0.9013

x of propane:         0.0000
y of propane:         0.0000

x of 1-propanol:      0.0000
y of 1-propanol:      0.0000

x of pentane:         0.0000
y of pentane:         0.0000

x of n-heptane:       0.7699
y of n-heptane:       0.2301

Would you like another calculation? 1 for yes, 2 for no.
```

Soave-Redlich-Kwong #2


```
flashbuddy

Enter T in Kelvin:    300

Enter P in bar:    8

Enter number of desired EOS:

1    ----    Redlich-Kwong
2    ----    Soave-Redlich-Kwong
3    ----    Peng-Robinson

2

Enter max iterations: 1000_
```

flashbuddy

```
Enter z (molar composition) for the following fluids:

Ethane:   0.10

Propane:   0.60

1-Propanol:   0.20

Pentane:   0.10

n-Heptane:   0

 Are these values correct? Enter 1 for yes, 2 for no.   _
```

flashbuddy

```
 Are these values correct? Enter 1 for yes, 2 for no.   1

After 1 iterations. . .

Psi:    0.7281

x of ethane:        0.0464
y of ethane:        0.2434

x of propane:       0.5272
y of propane:       0.7948

x of 1-propanol:    0.2738
y of 1-propanol:    0.0024

x of pentane:       0.1307
y of pentane:       0.0179

x of n-heptane:     0.0000
y of n-heptane:     0.0000

Would you like another calculation? 1 for yes, 2 for no.
```

Peng-Robinson #3

Enter T in Kelvin: 295

Enter P in bar: 1.25

Enter number of desired EOS:

1   ----   Redlich-Kwong
2   ----   Soave-Redlich-Kwong
3   ----   Peng-Robinson

3

Enter max iterations: 1000

Enter z (molar composition) for the following fluids:

Ethane: 0.10

Propane: 0.20

1-Propanol: 0.40

Pentane: 0.20

n-Heptane: 0.10

 Are these values correct? Enter 1 for yes, 2 for no.   1_