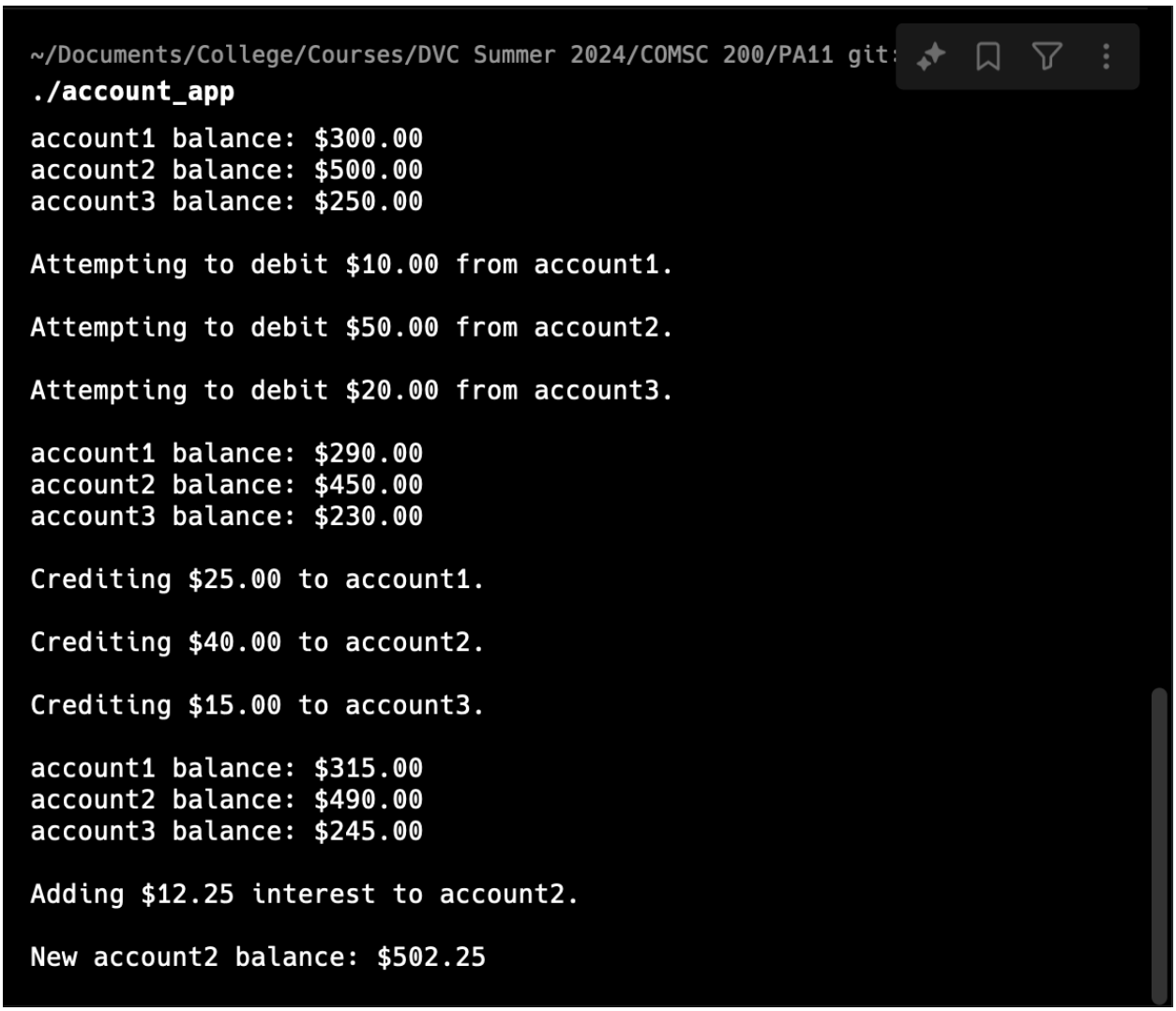
Sample Run 1:

```
int main()
{
   Account account1( 600.0 ); // create Account object
   SavingsAccount account2( 150.0, .055 ); // create SavingsAccount object
   CheckingAccount account3( 450.0, 1.25 ); // create CheckingAccount object

   cout << fixed << setprecision( 2 );

   // display initial balance of each object
   cout << "account1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nAttempting to debit $20.00 from account1." << endl;
   account1.debit( 20.0 );
   cout << "\nAttempting to debit $15.00 from account2." << endl;
   account2.debit( 15.0 );
   cout << "\nAttempting to debit $50.00 from account3." << endl;
   account3.debit( 50.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nCrediting $30.00 to account1." << endl;
   account1.credit( 30.0 );
   cout << "\nCrediting $25.00 to account2." << endl;
   account2.credit( 25.0 );
   cout << "\nCrediting $40.00 to account3." << endl;
   account3.credit( 40.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   // add interest to SavingsAccount object account2
   double interestEarned = account2.calculateInterest();
   cout << "\nAdding $" << interestEarned << " interest to account2."
      << endl;
   account2.credit( interestEarned );
```

```
~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA11 git:
./account_app
account1 balance: $600.00
account2 balance: $150.00
account3 balance: $450.00

Attempting to debit $20.00 from account1.

Attempting to debit $15.00 from account2.

Attempting to debit $50.00 from account3.

account1 balance: $580.00
account2 balance: $135.00
account3 balance: $400.00

Crediting $30.00 to account1.

Crediting $25.00 to account2.

Crediting $40.00 to account3.

account1 balance: $610.00
account2 balance: $160.00
account3 balance: $440.00

Adding $8.80 interest to account2.

New account2 balance: $168.80
```

Sample Run 2:

```
int main()
{
   Account account1( 300.0 ); // create Account object
   SavingsAccount account2( 500.0, .025 ); // create SavingsAccount object
   CheckingAccount account3( 250.0, 1.5 ); // create CheckingAccount object

   cout << fixed << setprecision( 2 );

   // display initial balance of each object
   cout << "account1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nAttempting to debit $10.00 from account1." << endl;
   account1.debit( 10.0 );
   cout << "\nAttempting to debit $50.00 from account2." << endl;
   account2.debit( 50.0 );
   cout << "\nAttempting to debit $20.00 from account3." << endl;
   account3.debit( 20.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nCrediting $25.00 to account1." << endl;
   account1.credit( 25.0 );
   cout << "\nCrediting $40.00 to account2." << endl;
   account2.credit( 40.0 );
   cout << "\nCrediting $15.00 to account3." << endl;
   account3.credit( 15.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   // add interest to SavingsAccount object account2
   double interestEarned = account2.calculateInterest();
   cout << "\nAdding $" << interestEarned << " interest to account2."
      << endl;
   account2.credit( interestEarned );

   cout << "\nNew account2 balance: $" << account2.getBalance() << endl;
```


~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA11 git:
./account_app
account1 balance: $300.00
account2 balance: $500.00
account3 balance: $250.00
Attempting to debit $10.00 from account1.
Attempting to debit $50.00 from account2.
Attempting to debit $20.00 from account3.
account1 balance: $290.00
account2 balance: $450.00
account3 balance: $230.00
Crediting $25.00 to account1.
Crediting $40.00 to account2.
Crediting $15.00 to account3.
account1 balance: $315.00
account2 balance: $490.00
account3 balance: $245.00
Adding $12.25 interest to account2.
New account2 balance: $502.25

Sample Run 3:

```
int main()
{
   Account account1( 700.0 ); // create Account object
   SavingsAccount account2( 400.0, .04 ); // create SavingsAccount object
   CheckingAccount account3( 600.0, 1.75 ); // create CheckingAccount object

   cout << fixed << setprecision( 2 );

   // display initial balance of each object
   cout << "account1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nAttempting to debit $35.00 from account1." << endl;
   account1.debit( 35.0 );
   cout << "\nAttempting to debit $20.00 from account2." << endl;
   account2.debit( 20.0 );
   cout << "\nAttempting to debit $60.00 from account3." << endl;
   account3.debit( 60.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nCrediting $50.00 to account1." << endl;
   account1.credit( 50.0 );
   cout << "\nCrediting $30.00 to account2." << endl;
   account2.credit( 30.0 );
   cout << "\nCrediting $25.00 to account3." << endl;
   account3.credit( 25.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   // add interest to SavingsAccount object account2
   double interestEarned = account2.calculateInterest();
   cout << "\nAdding $" << interestEarned << " interest to account2."
      << endl;
   account2.credit( interestEarned );

   cout << "\nNew account2 balance: $" << account2.getBalance() << endl;
```

```
~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA11 git:(main)±8 (0.238s)
./account_app
account1 balance: $700.00
account2 balance: $400.00
account3 balance: $600.00

Attempting to debit $35.00 from account1.

Attempting to debit $20.00 from account2.

Attempting to debit $60.00 from account3.

account1 balance: $665.00
account2 balance: $380.00
account3 balance: $540.00

Crediting $50.00 to account1.

Crediting $30.00 to account2.

Crediting $25.00 to account3.

account1 balance: $715.00
account2 balance: $410.00
account3 balance: $565.00

Adding $16.40 interest to account2.

New account2 balance: $426.40
```

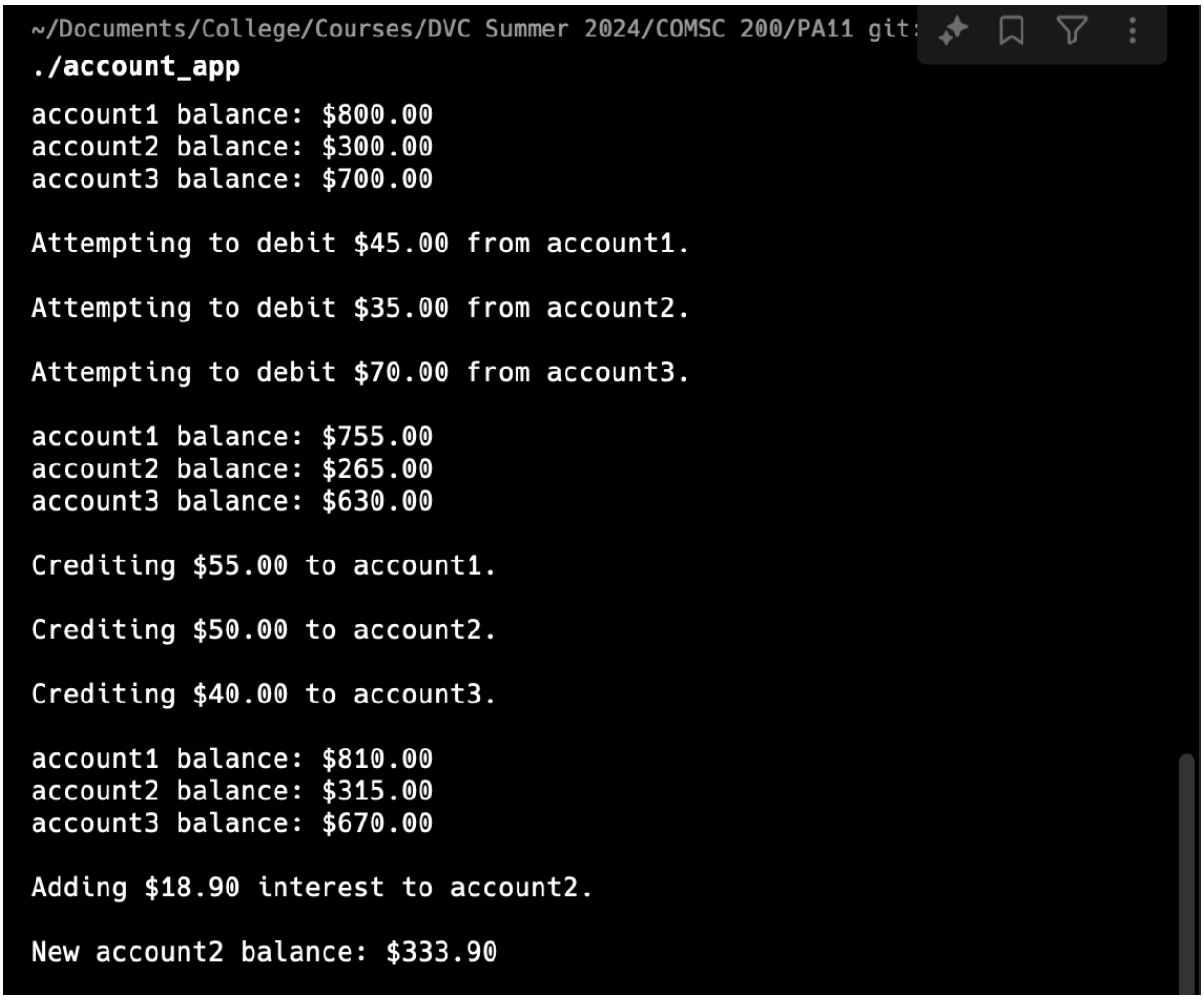
Sample Run 4:

```
int main()
{
   Account account1( 1000.0 ); // create Account object
   SavingsAccount account2( 200.0, .05 ); // create SavingsAccount object
   CheckingAccount account3( 300.0, 1.5 ); // create CheckingAccount object

   cout << fixed << setprecision( 2 );

   // display initial balance of each object
   cout << "account1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nAttempting to debit $75.00 from account1." << endl;
   account1.debit( 75.0 );
   cout << "\nAttempting to debit $25.00 from account2." << endl;
   account2.debit( 25.0 );
   cout << "\nAttempting to debit $40.00 from account3." << endl;
   account3.debit( 40.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nCrediting $60.00 to account1." << endl;
   account1.credit( 60.0 );
   cout << "\nCrediting $20.00 to account2." << endl;
   account2.credit( 20.0 );
   cout << "\nCrediting $30.00 to account3." << endl;
   account3.credit( 30.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   // add interest to SavingsAccount object account2
   double interestEarned = account2.calculateInterest();
   cout << "\nAdding $" << interestEarned << " interest to account2."
      << endl;
   account2.credit( interestEarned );

   cout << "\nNew account2 balance: $" << account2.getBalance() << endl;
```

```
~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA11 git:
./account_app
account1 balance: $1000.00
account2 balance: $200.00
account3 balance: $300.00

Attempting to debit $75.00 from account1.

Attempting to debit $25.00 from account2.

Attempting to debit $40.00 from account3.

account1 balance: $925.00
account2 balance: $175.00
account3 balance: $260.00

Crediting $60.00 to account1.

Crediting $20.00 to account2.

Crediting $30.00 to account3.

account1 balance: $985.00
account2 balance: $195.00
account3 balance: $290.00

Adding $9.75 interest to account2.

New account2 balance: $204.75
```

Sample Run 5:

```
int main()
{
   Account account1( 800.0 ); // create Account object
   SavingsAccount account2( 300.0, .06 ); // create SavingsAccount object
   CheckingAccount account3( 700.0, 2.0 ); // create CheckingAccount object

   cout << fixed << setprecision( 2 );

   // display initial balance of each object
   cout << "account1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nAttempting to debit $45.00 from account1." << endl;
   account1.debit( 45.0 );
   cout << "\nAttempting to debit $35.00 from account2." << endl;
   account2.debit( 35.0 );
   cout << "\nAttempting to debit $70.00 from account3." << endl;
   account3.debit( 70.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   cout << "\nCrediting $55.00 to account1." << endl;
   account1.credit( 55.0 );
   cout << "\nCrediting $50.00 to account2." << endl;
   account2.credit( 50.0 );
   cout << "\nCrediting $40.00 to account3." << endl;
   account3.credit( 40.0 );

   // display balances
   cout << "\naccount1 balance: $" << account1.getBalance() << endl;
   cout << "account2 balance: $" << account2.getBalance() << endl;
   cout << "account3 balance: $" << account3.getBalance() << endl;

   // add interest to SavingsAccount object account2
   double interestEarned = account2.calculateInterest();
   cout << "\nAdding $" << interestEarned << " interest to account2."
      << endl;
   account2.credit( interestEarned );

   cout << "\nNew account2 balance: $" << account2.getBalance() << endl;
```


~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA11 git:
./account_app
account1 balance: $800.00
account2 balance: $300.00
account3 balance: $700.00
Attempting to debit $45.00 from account1.
Attempting to debit $35.00 from account2.
Attempting to debit $70.00 from account3.
account1 balance: $755.00
account2 balance: $265.00
account3 balance: $630.00
Crediting $55.00 to account1.
Crediting $50.00 to account2.
Crediting $40.00 to account3.
account1 balance: $810.00
account2 balance: $315.00
account3 balance: $670.00
Adding $18.90 interest to account2.
New account2 balance: $333.90