Part 1

Multiply Program

```
def multiplication_table(rows, cols):
    print("\nMultiplication Table\n")
    for i in range(1, rows + 1):
        for j in range(1, cols + 1):
            print(i * j, end="\t")
        print()

def main():
    rows = int(input("How many rows: "))
    cols = int(input("How many cols: "))
    multiplication_table(rows, cols)

if main == main:
    main()
```

Sample Output

```
Multiplication Table

1   2   3   4   5   6   7   8   9   10
2   4   6   8   10  12  14  16  18  20
3   6   9   12  15  18  21  24  27  30
4   8   12  16  20  24  28  32  36  40
5   10  15  20  25  30  35  40  45  50
6   12  18  24  30  36  42  48  54  60
7   14  21  28  35  42  49  56  63  70
8   16  24  32  40  48  56  64  72  80
9   18  27  36  45  54  63  72  81  90
10  20  30  40  50  60  70  80  90  100

Process finished with exit code 0
```

Part 2

Bank program

```
def show_balance(balance):
    print("******************")
    print(f"Your balance is ${balance:.2f}")
    print("******************")


def deposit(balance):
    amount = float(input("Enter an amount to be deposited: "))
    balance += amount
    return balance
```

```
def withdraw(balance):
    amount = float(input("Enter amount to be withdrawn: "))
    if amount > balance:
        print("Insufficient funds!")
    else:
        balance -= amount
    return balance


def main():
    balance = 0.0
    while True:
        print("\nABCCDE ATM")
        print("******************")
        print("1. Show Balance")
        print("2. Deposit")
        print("3. Withdraw")
        print("4. Exit")
        print("******************")

        choice = input("Enter your choice (1-4): ")

        if choice == "1":
            show_balance(balance)
        elif choice == "2":
            balance = deposit(balance)
        elif choice == "3":
            balance = withdraw(balance)
        elif choice == "4":
            print("Thank you for using ABCCDE ATM!")
            break
        else:
            print("Invalid choice. Please select 1-4.")


if main == main:
    main()
```

Output

```
ABCCDE ATM
******************
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
******************
Enter your choice (1-4): 1
******************
Your balance is $0.00
******************

ABCCDE ATM
******************
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
******************
Enter your choice (1-4): 2
Enter an amount to be deposited: 200

ABCCDE ATM
******************
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
******************
Enter your choice (1-4): SS
```