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C204

Part 1: Multiplication Table

Code:

```
main.py
1
2 def multiplication_table(rows, cols):
3     print("Multiplication Table")
4     for i in range(1, rows + 1):
5         for j in range(1, cols + 1):
6             print(i * j, end=" ")
7         print()
8
9 rows = int(input("How many rows: "))
10 cols = int(input("How many cols: "))
11 multiplication_table(rows, cols)
```

Output:

```
How many rows: 5
How many cols: 5
Multiplication Table
1 2 3 4 5
2 4 6 8 10
3 6 9 12 15
4 8 12 16 20
5 10 15 20 25
```

Part 2: Bank

Code:

```

main.py
1 def show_balance(balance):
2     print("_____")
3     print(f"Your balance is ${balance:.2f}")
4     print("_____")
5
6 def deposit(balance):
7     amount = float(input("Enter amount: "))
8     balance += amount
9     print(f"${amount:.2f}")
10    return balance
11
12 def withdraw(balance):
13     amount = float(input("Enter amount: "))
14     if amount > balance:
15         print("Insufficient funds!")
16     else:
17         balance -= amount
18         print(f"${amount:.2f}")
19         return balance
20
21 def bank():
22     balance = 0.0
23     while True:
24         print("_____")
25         print("ABCDE ATM")
26         print("_____")
27         print("1. Show Balance")
28         print("2. Deposit")
29         print("3. Withdraw")
30         print("4. Exit")
31         print("_____")
32
33         choice = input("Enter your Choice(1-4):")
34
35         if choice == "1":
36             show_balance(balance)
37         elif choice == "2":
38             balance = deposit(balance)
39         elif choice == "3":
40             balance = withdraw(balance)
41         elif choice == "4":
42             print("Thankyou for using ABCDE ATM!.")
43             break
44         else:
45             print("Invalid choice")
46
47 bank()

```

Output:

```

ABCDE ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
Enter your Choice(1-4):1
Your balance is $0.00
_____
ABCDE ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
Enter your Choice(1-4):2
Enter amount: 500
$500.00
_____
ABCDE ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
Enter your Choice(1-4):1
Your balance is $500.00
_____
ABCDE ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
Enter your Choice(1-4):3
Enter amount: 250
$250.00
_____
ABCDE ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
Enter your Choice(1-4):

```

