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Section: C204

PROBLEM # 1

```
main.py
1 def print_multiplication_table(rows, cols):
2     print("\n\t\tMultiplication Table")
3     for i in range(1, rows + 1):
4         for j in range(1, cols + 1):
5             print(f"{i * j:4}", end="")
6         print()
7
8
9 def main():
10     rows = int(input("How many rows: "))
11     cols = int(input("How many cols: "))
12     print_multiplication_table(rows, cols)
13
14
15 main()
16
17
18
19
20
21
```

SAMPLE OUTPUT

```
How many rows: 5
How many cols: 6

                Multiplication Table
 1    2    3    4    5    6
 2    4    6    8   10   12
 3    6    9   12   15   18
 4    8   12   16   20   24
 5   10   15   20   25   30

...Program finished with exit code 0
Press ENTER to exit console.
```

## PROBLEM # 2

```
main.py
1 def display_menu():
2     print("\n\t\tABCCDE ATM")
3     print("*****")
4     print("1. Show Balance")
5     print("2. Deposit")
6     print("3. Withdraw")
7     print("4. Exit")
8     print("*****")
9
10 def show_balance(balance):
11     print("*****")
12     print(f"Your balance is ${balance:.2f}")
13     print("*****")
14
15 def deposit(balance):
16     amount = float(input("Enter an amount to be deposited: "))
17     balance += amount
18     return balance
19
20 def withdraw(balance):
21     amount = float(input("Enter amount to be withdrawn: "))
22     if amount > balance:
23         print("Insufficient funds!")
24     else:
25         balance -= amount
26     return balance
27
28 def main():
29     balance = 0.0
30     while True:
31         display_menu()
32         choice = input("Enter your choice (1-4): ")
33         print("*****")
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("Thank you for using ABCCDE ATM!")
43             break
44         else:
45             print("Invalid choice. Please enter a number from 1 to 4.")
46     main()
47
```

## SAMPLE OUTPUT

```

                                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): 3
*****
Enter amount to be withdrawn: 50

                                ABCCDE ATM
*****
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
*****
Enter your choice (1-4): 1
*****
*****
Your balance is $150.00
*****

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