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BSCS-C204

Problem 1.

Code

```
rows = int(input("How many rows:"))
columns = int(input("How many cols:"))
print("\t\tMultiplication Table")

for a in range(1,rows +1):
    for b in range(1, columns +1):
        print(f"{a * b:5d}", end = " ")
    print("\n")
```

Sample Output 1.

```
How many rows:10
How many cols:10
      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
```

Sample output 2.

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

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

Problem 2.

Code

```
1 - def show_balance(balance):
2     print("*****")
3     print(f"Your balance is ${balance:.2f}")
4
5 - def deposit(balance):
6     print("*****")
7     amount = float(input("Enter an amount to be deposited: "))
8     balance += amount
9     print("*****")
10    print(f"Your balance is ${balance:.2f}")
11    return balance
12
13 - def withdraw(balance):
14    print("*****")
15    amount = float(input("Enter amount to be withdrawn: "))
16    if amount > balance:
17        print("*****")
18        print("Insufficient funds.")
19    else:
20        balance -= amount
21        print("*****")
22        print(f"Your balance is ${balance:.2f}")
23    return balance
24
25
26 - def main():
27    balance = 0.0
28    while True:
29        print("\n***** LEX BANK *****")
30        print("1. Show Balance")
31        print("2. Deposit")
32        print("3. Withdraw")
33        print("4. Exit")
34        print("*****")
35
36        choice = int(input("Enter your choice (1-4): "))
37
38        if choice == 1:
39            show_balance(balance)
40        elif choice == 2:
41            balance = deposit(balance)
42        elif choice == 3:
43            balance = withdraw(balance)
44        elif choice == 4:
45            print("*****")
46            print("Exiting. Thank you for using ABCDE ATM.")
47            break
48        else:
49            print("*****")
50            print("Invalid choice. Please try again.")
51
52
53 - if __name__ == "__main__":
54    main()
```

Sample Output

```
***** LEX BANK *****
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
*****

Enter your choice (1-4): 1
*****
Your balance is $0.00

***** LEX BANK *****
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
*****

Enter your choice (1-4): 2
*****
Enter an amount to be deposited: 2000
*****
Your balance is $2000.00

3. Withdraw
4. Exit
*****

Enter your choice (1-4): 3
*****
Enter amount to be withdrawn: 750
*****
Your balance is $1250.00

***** LEX BANK *****
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
*****

Enter your choice (1-4): 1
*****
Your balance is $1250.00
```