Torres, Justine Kurt Q.
BSCS – C204

Problem 1: **NESTED FOR LOOP (Multiplication Table)**

```python
#Nested Loop for Multiplication Table
row = int(input("How many rows: "))
col = int(input("How many columns: "))
print("Multiplication Table")

for x in range(1, row + 1):
    for y in range(1, col + 1):
        print(f"{x*y}", end="\t")
    print()

```

Sample Output:

```
C:\Users\COMLAB\PycharmProjects\forloop1\venv\Scripts\python.exe C:\Users\COMLAB\PycharmProjects\forloop1\Task1.py
How many rows: 5
How many columns: 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	

Process finished with exit code 0
```

Problem2: Createabankprogramthatwill allowtheusertoperformtheff: UseFunctionsas Necessary.

main.py

```python
balance = 0

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


def deposit():
    global balance
    print("********************")
    amount = float(input("Enter the amount to be deposited: "))
    balance += amount
    print("********************")


def withdraw():
    global balance
    print("********************")
    amount = float(input("Enter the amount to be withdrawn: "))
    if amount > balance:
        print("Insuficient balance.")
    else:
        balance -= amount
        print("Withdrawal successful.")
    print("********************")


def main():

    while True:
        print("\n********************")
        print("    AKINLANG ATM")
        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()
        elif choice == "2":
            deposit()
        elif choice == "3":
            withdraw()
        elif choice == "4":
            print("Thank You for using AKINLANG ATM. Bye ;)")
            break
        else:
            print("Invalid input. Please select from 1 to 4.")

main()
```

Sample Output:

```
********************
   AKINLANG ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
********************
Enter your choice ( 1-4 ): 2
********************
Enter the amount to be deposited: 1000
********************
```

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

```
********************
   AKINLANG ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
********************
Enter your choice ( 1-4 ): 1
********************
Your balance is $901.00
********************
```

```
********************
   AKINLANG ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
********************
Enter your choice ( 1-4 ): 3
********************
Enter the amount to be withdrawn: 99
Withdrawal successful.
********************
```

```
********************
   AKINLANG ATM
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
********************
Enter your choice ( 1-4 ): 4
Thank You for using AKINLANG ATM. Bye ;)
```