Midterm Lab Task 2. Using Loops and Functions

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C204

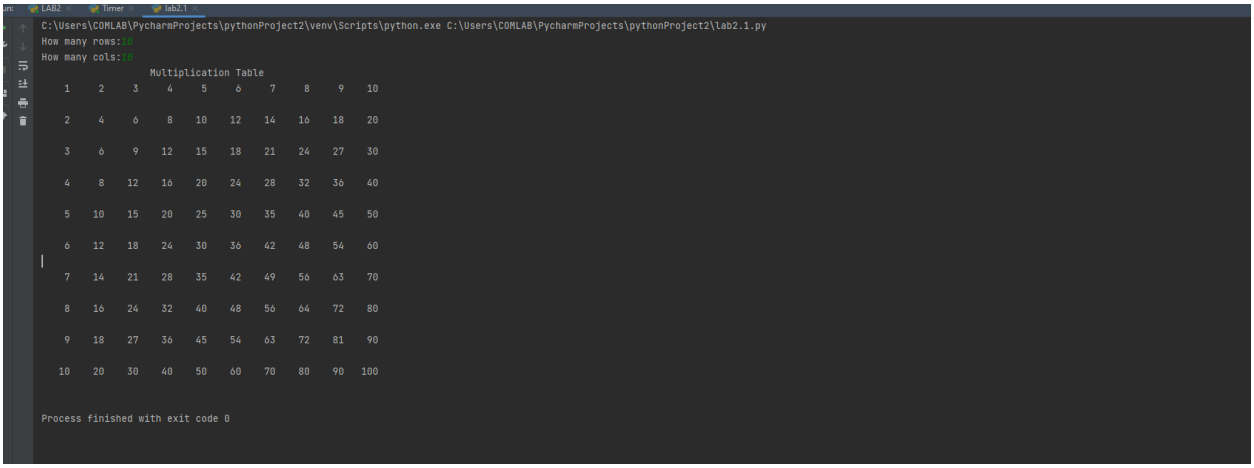
Problem 1.

Code:

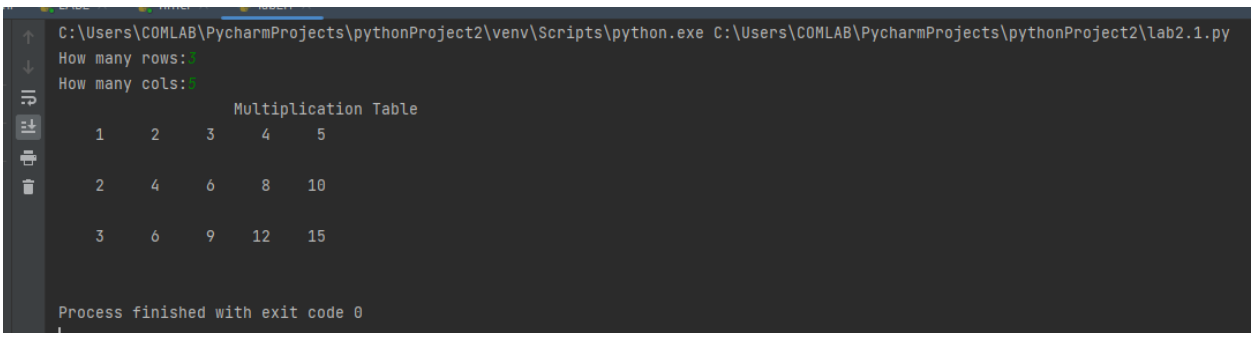
```
r = int(input("How many rows:"))
c = int(input("How many cols:"))
print("\t\t           Multiplication Table")

for i in range(1,r +1):
    for o in range(1, c +1):
        print(f"{i * o:5d}", end = " ")
    print("\n")
```

sample output1



Sample output 2



Problem 2.

Code

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

def deposit(balance):
    print("******************")
    amount = float(input("Enter the amount you wish to deposit: "))
    balance += amount
    print("******************")
    print(f"your  balance is ${balance: .2f}")
    return balance

def withdraw(balance):
    print("******************")
    amount = float(input("Enter the amount you wish to withdraw: "))
    if amount > balance:
        print("******************")
        print("Insufficient balance")
    else:
        balance -= amount
        print("******************")
        print(f"your  balance is ${balance: .2f}")
    return balance

def main():
    balance = 0.0
```

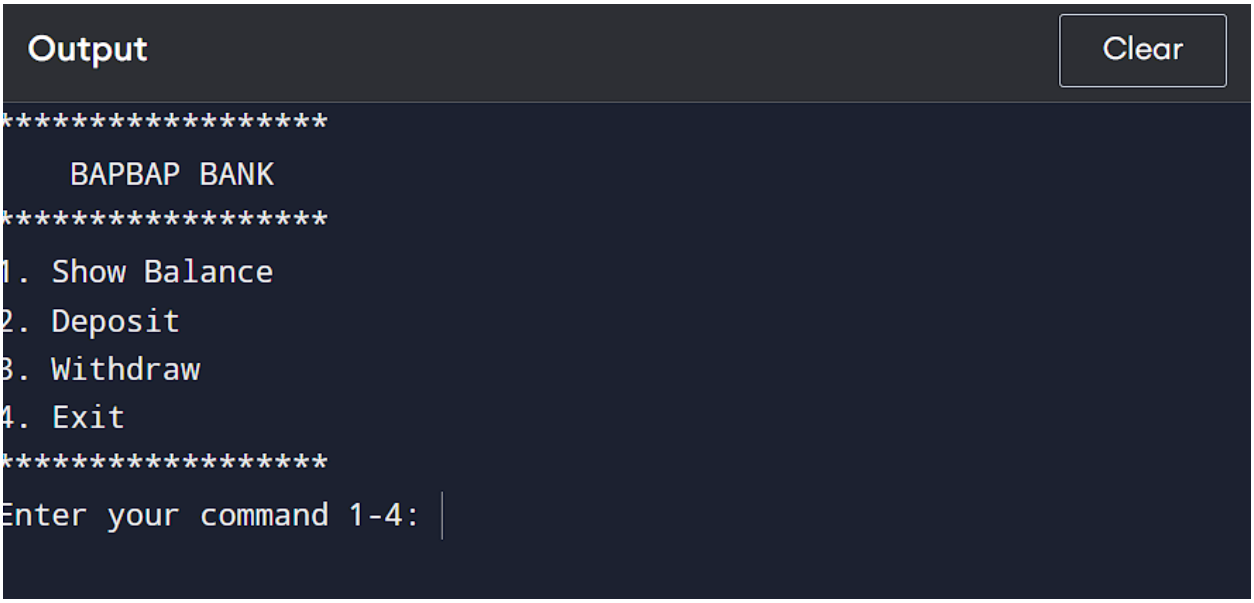
```
    while True:
        print("******************")
        print("    BAPBAP BANK   ")
        print("******************")
        print("1. Show Balance")
        print("2. Deposit")
        print("3. Withdraw")
        print("4. Exit")
        print("******************")

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

        if choice == 1:
            show_balance(balance)
        elif choice == 2:
            balance = deposit(balance)
        elif choice == 3:
            balance = withdraw(balance)
        elif choice == 4:
            print("******************")
            print("Thank you for using our bank")
            break
        else:
            print("******************")
            print("Invalid choice")

main()
```

sample output




```
**********
Enter your command 1-4: 2
**********
Enter the amount you wish to deposit: 1000
**********
your  balance is $ 1000.00
**********
    BAPBAP BANK
**********
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
**********
Enter your command 1-4:
```

```
******************
Enter your command 1-4: 1
******************
your  balance is $ 1000.00
******************
    BAPBAP BANK
******************
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
******************
Enter your command 1-4:
```

```
******************
Enter your command 1-4: 3
******************
Enter the amount you wish to withdraw: 250
******************
your  balance is $ 750.00
******************
    BAPBAP BANK
******************
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
******************
Enter your command 1-4:
```

```
******************
Enter your command 1-4: 1
******************
your  balance is $ 750.00
******************
    BAPBAP BANK
******************
1. Show Balance
2. Deposit
3. Withdraw
4. Exit
******************
Enter your command 1-4:
```