# User Document: BankSimulation App

## Problem Description

The Bank Simulation program simulates a simplified bank service system where customers arrive, wait in line if necessary, and are served by a teller.

## Github Link

The source code for this program can be found on GitHub at the following location:

## How to compile?

To compile the program, follow the steps:

1. Open a Terminal or Command Prompt and navigate to the directory where the source files are located using the cd command.

cd <path\_to\_source\_folder>

1. Use g++ command given below to compile:

g++ .\BankSimulation.cpp .\PrecondViolatedExcep.cpp –o BankSimulation

1. Execute the compiled program by typing its name in the command prompt:

./BankSimulation

Actual output:

Processing an arrival event at time: 1

Processing an arrival event at time: 2

Processing an arrival event at time: 4

Processing a departure event at time: 6

Processing a departure event at time: 11

Processing a departure event at time: 16

Processing an arrival event at time: 20

Processing an arrival event at time: 22

Processing an arrival event at time: 24

Processing a departure event at time: 25

Processing an arrival event at time: 26

Processing an arrival event at time: 28

Processing a departure event at time: 30

Processing an arrival event at time: 30

Processing a departure event at time: 35

Processing a departure event at time: 40

Processing a departure event at time: 45

Processing a departure event at time: 50

Processing an arrival event at time: 88

Processing a departure event at time: 91

Simulation ends.

Final Statistics:

Total number of customers processed: 10

Average amount of time spent waiting: 5.6 minutes