Bismillahhir Rahmanir Rahim

আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম

الجامعة الإسلامية العالمية شيتاغونغ

International Islamic University Chittagong

MID Project

Project Name: Electricity Billing System

Submission date- 12 October , 2021

Course Title- Software Development 1

Course Code: CSE-2340

Submited to-

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Electricity Billing System is a software-based application developed in Java programming language. The project aims at serving the department of electricity by computerizing the billing system. It mainly focuses on the calculation of Units consumed during the specified time and the money to be paid to electricity offices. This computerized system will make the overall billing system easy, accessible, comfortable and effective for consumers.

Here, I have briefly described this project with its features and by comparing it to the conventional system of electricity billing.

Electricity Billing System Project Abstract:

Features:

a. To make the billing system more service-oriented and simple, the following features have been implemented in the project.
b. The application has high speed of performance with accuracy and efficiency.
c. The software provides facility of data sharing.
d. It doesn't require any staffs as in the conventional system. Once it is installed on the system, only the meter readings are to be given by the customer.
e. The software provides facility of data printing.
f. The electricity billing software calculates the units consumed by the customer and makes bills.
g. It requires small storage for installation and functioning.
h. There is provision for debugging if any problem is encountered in the system.

Existing and Proposed System:

The conventional system of electricity billing is not so effective; one staff has to visit each customer's house to note the meter readings and collect the data. Then, another staff has to compute the consumed units and calculate the money to be paid. Again, the bills prepared are to be delivered to customers. Finally, individual customer has to go to electricity office to pay their dues.

Hence, the conventional electricity billing system is uneconomical, requires many staffs to do simple jobs and is a lengthy process overall. In order to solve this lengthy process of billing, a web based computerized system is essential. This proposed electricity billing system project overcomes all these drawbacks with the features aforementioned. It is beneficial to both consumers and the company which provides electricity.

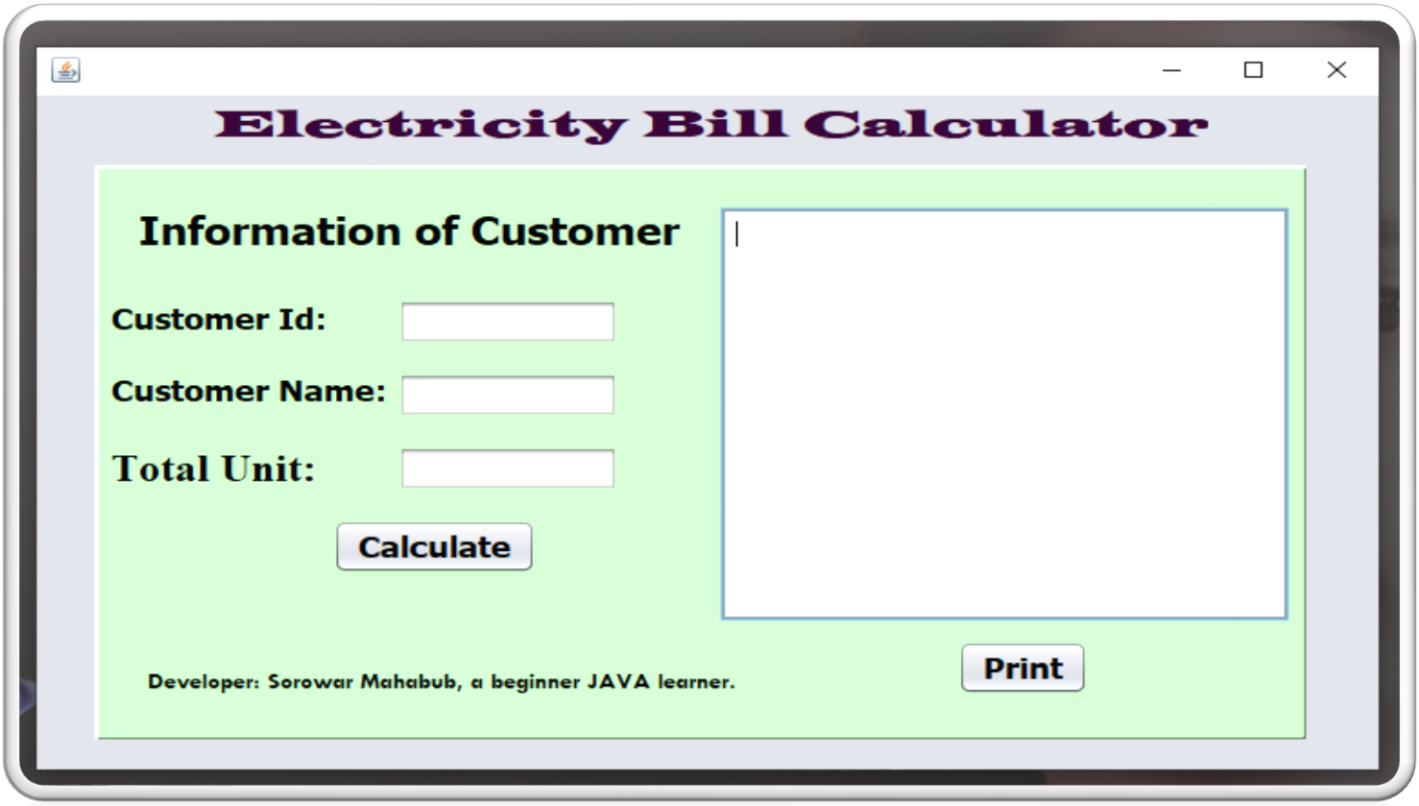
With the new system, there is reduction in the number of staffs to be employed by the company. The working speed and performance of the software is faster with high performance which saves time. Furthermore, there is very little chance of miscalculation and being corrupted by the staffs.

The calculation System:

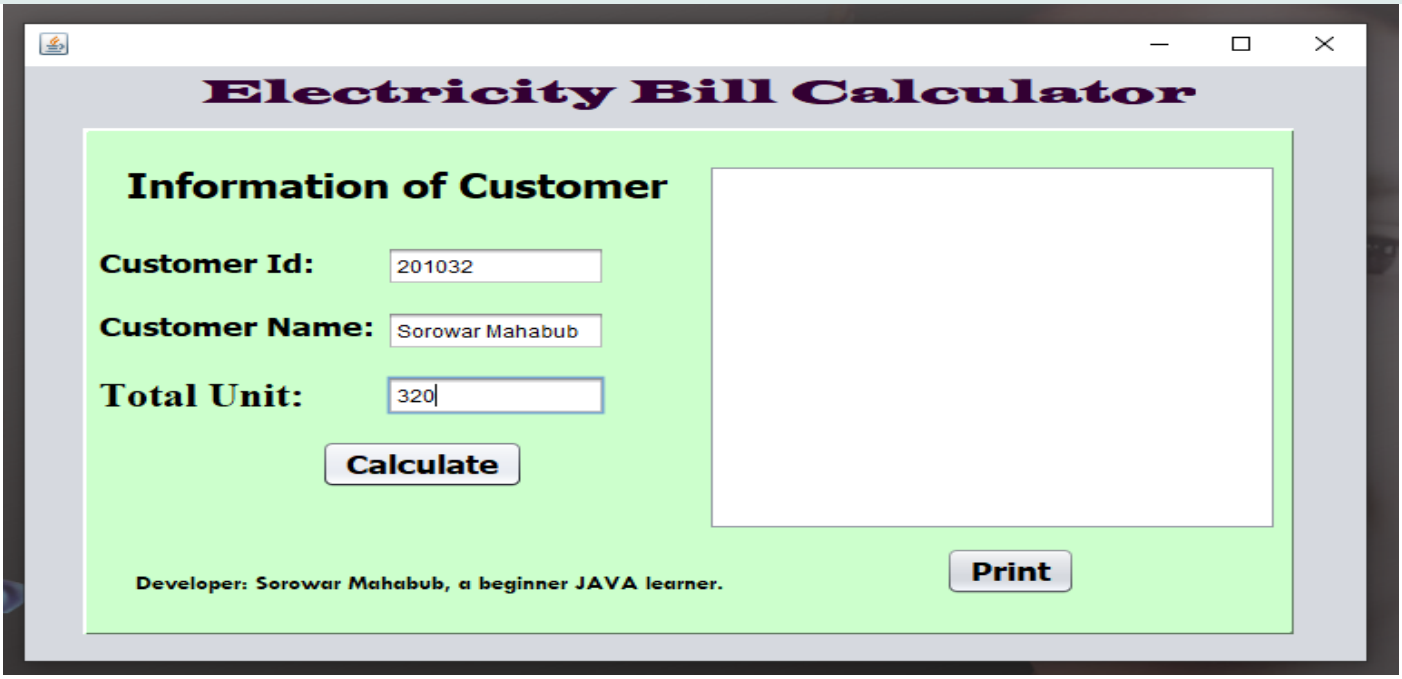
Charge per Unit		
Unit Range	**Amount (Taka)**	**Remarks**
<75	3.50	*if **Total Amount is less than 125 Taka** then minimum **Total Amount will be 125 Taka** as meter charge!
<120	7.00	
<300	10.00	
<1000	18.50	
>=1000	25.00	

Screenshots:

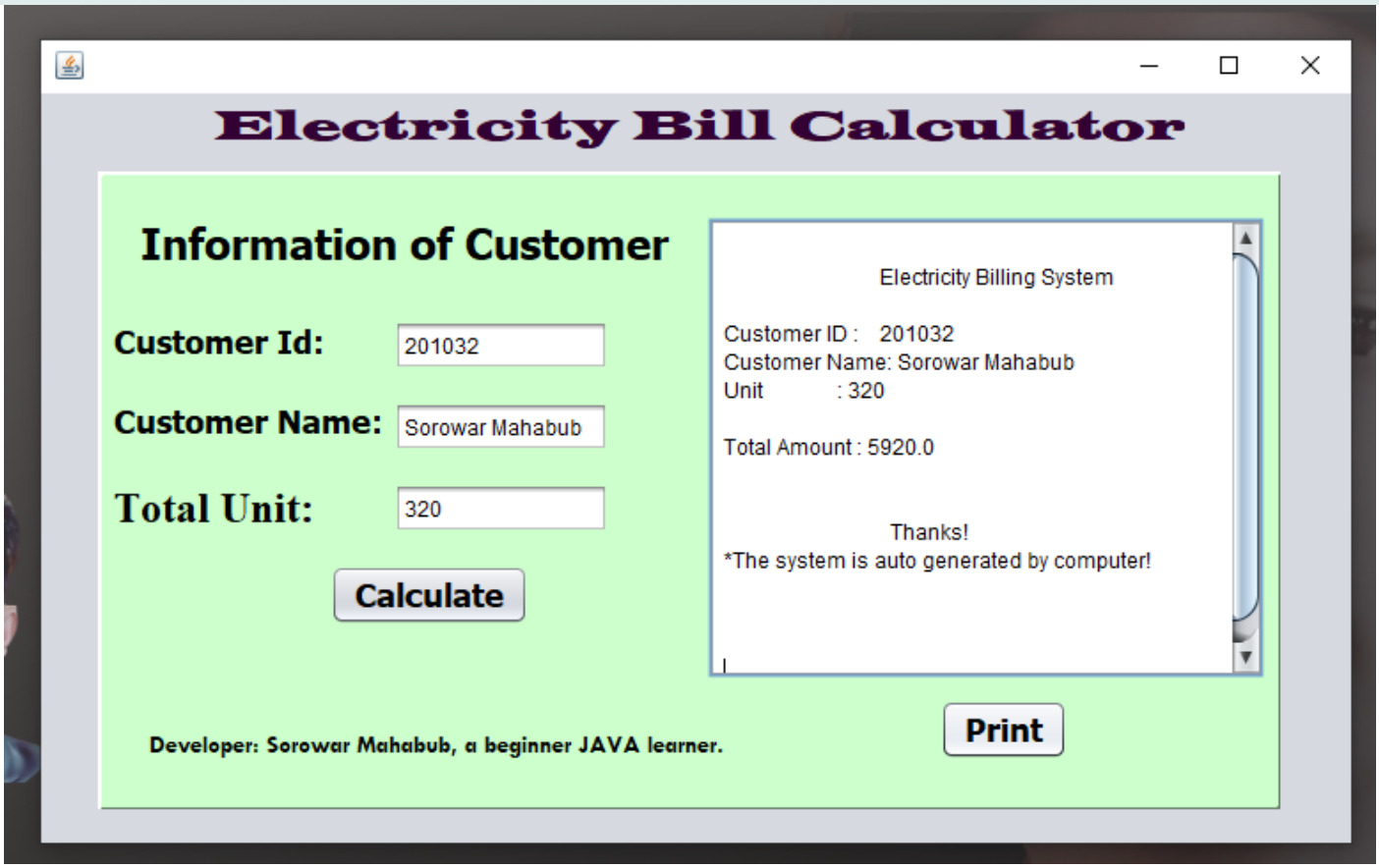
1



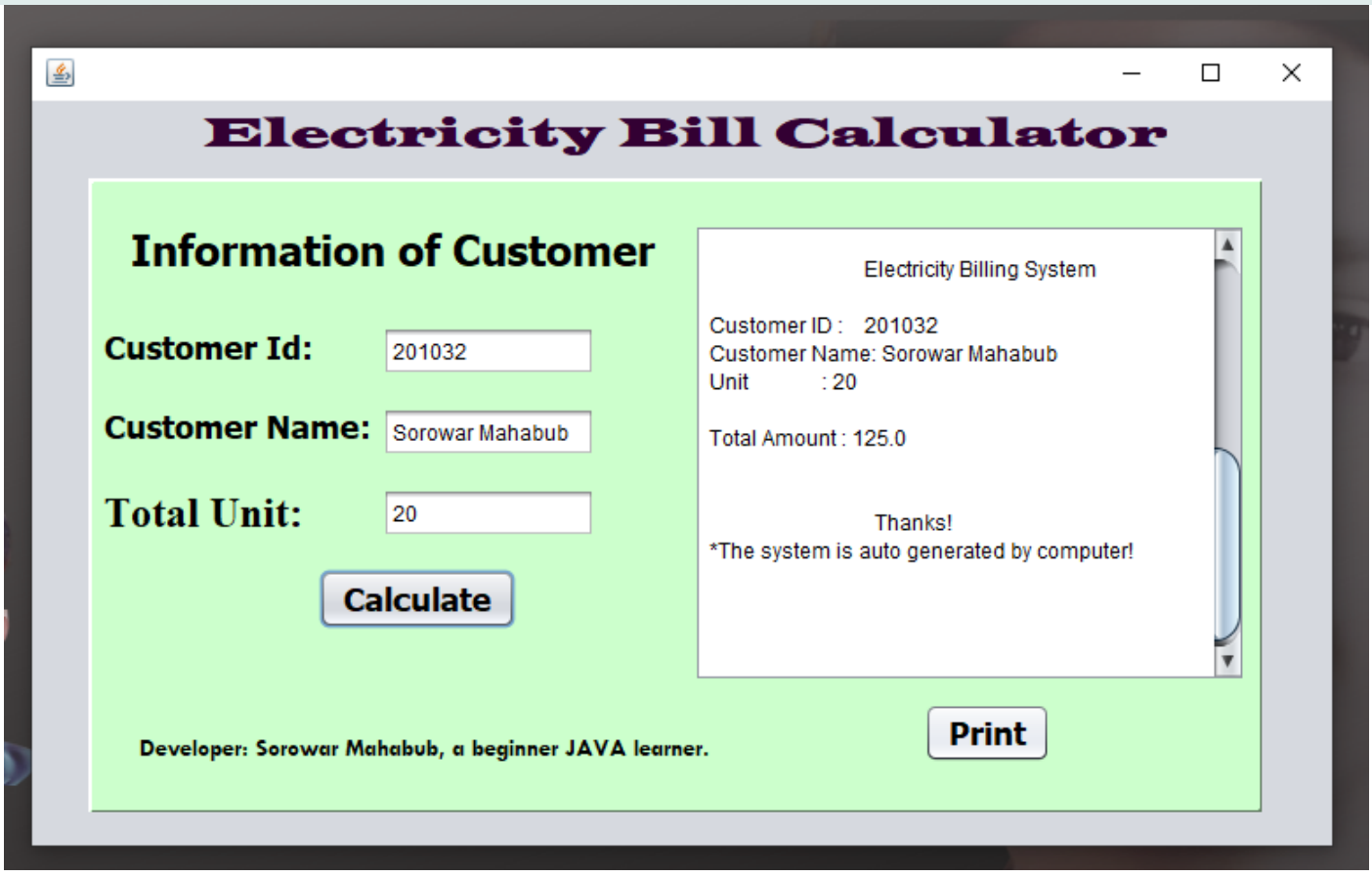
2



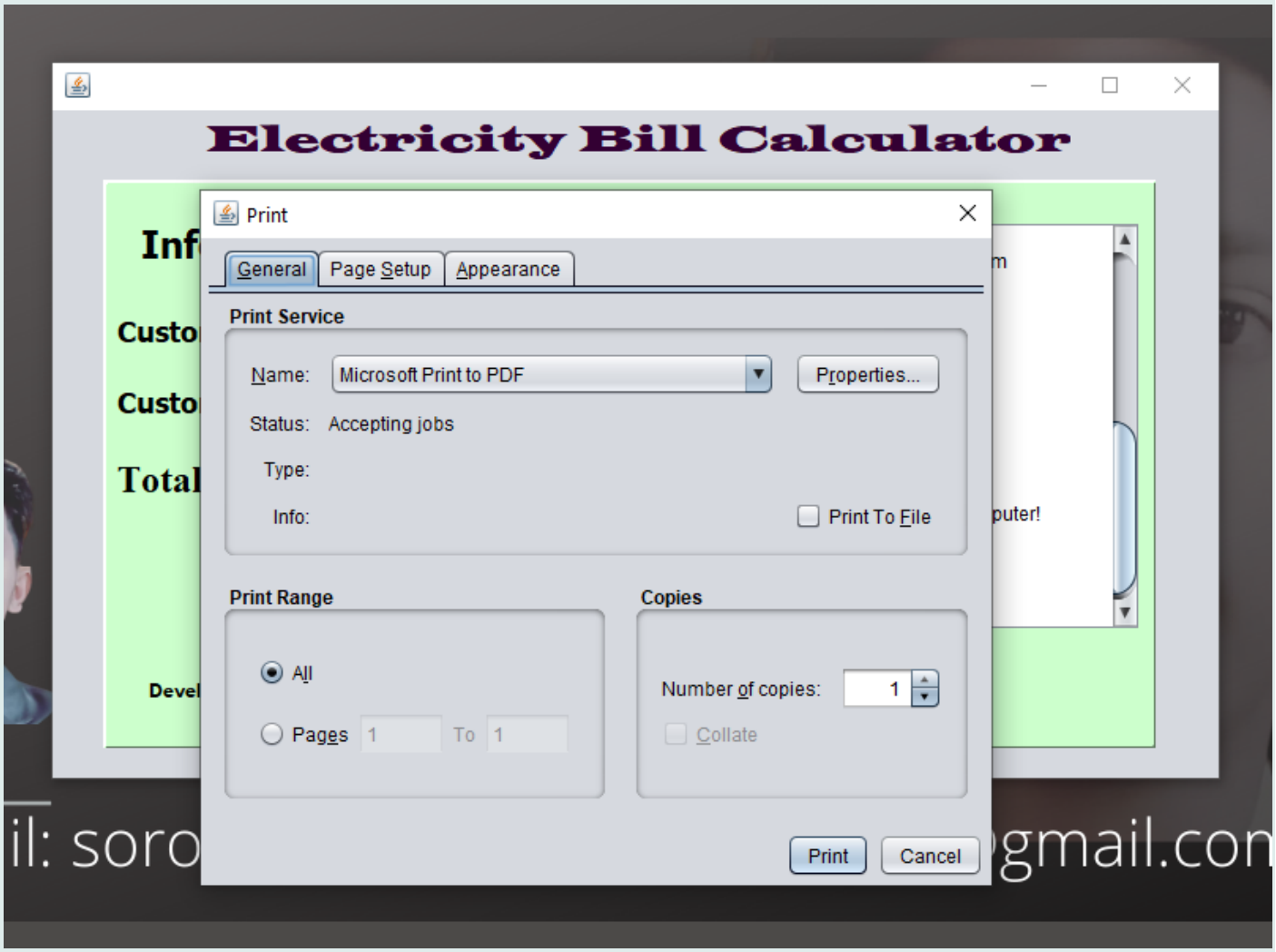
3


Electricity Bill Calculator
Information of Customer
Customer Id:
201032
Customer Name:
Sorowar Mahabub
Total Unit:
320
Calculate
Electricity Billing System
Customer ID : 201032
Customer Name: Sorowar Mahabub
Unit : 320
Total Amount : 5920.0
Thanks!
*The system is auto generated by computer!
Developer: Sorowar Mahabub, a beginner JAVA learner.
Print

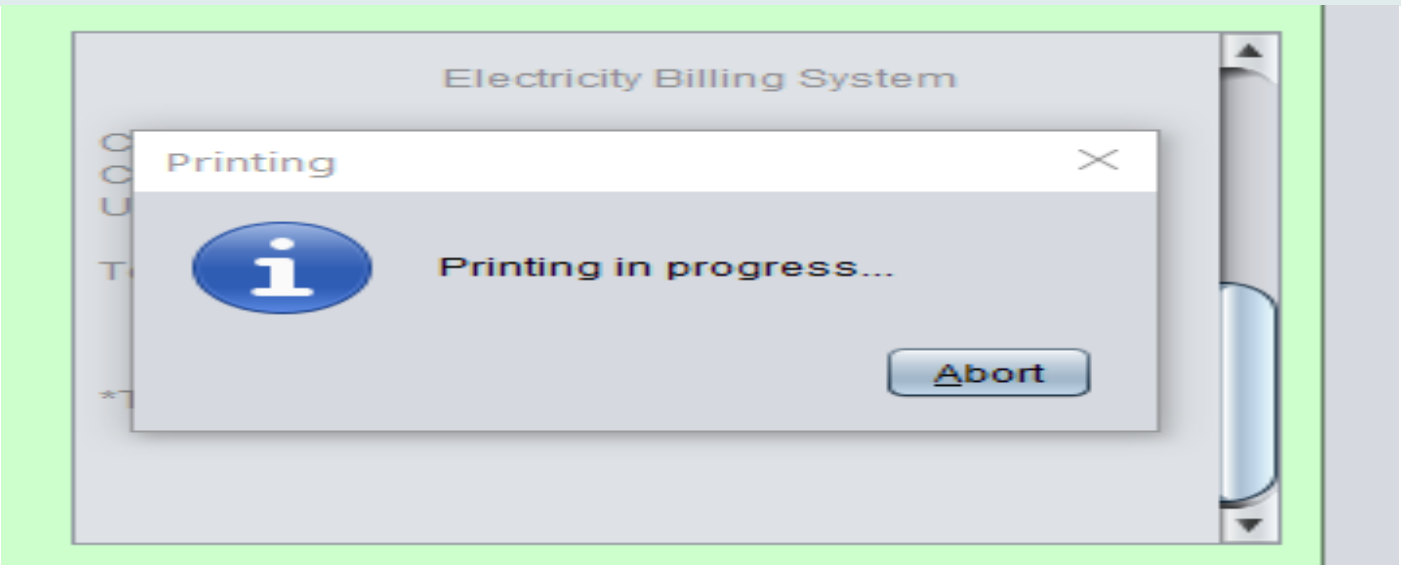
4


Electricity Bill Calculator
Information of Customer
Customer Id:
201032
Customer Name:
Sorowar Mahabub
Total Unit:
20
Calculate
Electricity Billing System
Customer ID : 201032
Customer Name: Sorowar Mahabub
Unit : 20
Total Amount : 125.0
Thanks!
*The system is auto generated by computer!
Developer: Sorowar Mahabub, a beginner JAVA learner.
Print

5


Electricity Bill Calculator
Print
General
Page Setup
Appearance
Print Service
Name:
Microsoft Print to PDF
Properties...
Status:
Accepting jobs
Type:
Info:
Print To File
Print Range
All
Pages
1
To
1
Copies
Number of copies:
1
Collate
Print
Cancel

6


Electricity Billing System
Printing
Printing in progress...
Abort

Conclusion:

A new software system to modernize the electricity billing procedure is required. This electricity billing system project would replace the existing traditional and analog type of electricity billing system ensuring security, ease and comfort in billing. It meets the current user demands, and new features can be easily integrated into the system in future as per user requirements.

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