DBMS PROJECT

INVENTORY MANAGEMENT SYSTEM

CSE- A

C B ANANYA – 3122 21 5001 010

B AYSHWARYA – 3122 21 5001 017

HARINI MOHAN – 3122 21 5001 029

Google Drive Link for the Project:

https://drive.google.com/drive/folders/1atg_tdHFwVxlq_I4Yyixs25lgIHSxEva?usp=sharing

Creation of Tables:

```
drop table ORDERS;
drop table EMPLOYEES;
drop table SUPPLY;
drop table SUPPLIERS;
drop table STORES;
drop table CUSTOMERS;
drop table PRODUCTS;


create table PRODUCTS(PID varchar2(5) primary key,
brand char(20) not null,
pname char(20) not null,
mfg_date DATE not null,
exp_date DATE not null,
category char(10) not null,
Quantity int not null,
unit_price int not null);



create table CUSTOMERS(CID varchar2(5) PRIMARY KEY,
fname char(10) not null,
lname char(10) not null,
phno varchar2(10) not null,
```

```sql
doorno varchar(10) not null,
street varchar2(10) not null,
area varchar2(10) not null,
city varchar2(10) not null,
state varchar2(10) not null);


create table STORES(STID varchar2(5) primary key,
sname char(10) not null,
phno varchar2(10) not null,
doorno varchar(10) not null,
street varchar2(10) not null,
area varchar2(10) not null,
city varchar2(10) not null,
state varchar2(10) not null
);


create table SUPPLIERS(
SID VARCHAR2(5) primary key,
sname char(10) not null,
phno varchar2(10) not null,
doorno varchar(10) not null,
street varchar2(10) not null,
area varchar2(10) not null,
city varchar2(10) not null,
state varchar2(10) not null
);


create table SUPPLY(SUPID varchar2(5) primary key,
PID varchar2(5),
SID varchar2(5),
STID varchar2(5),
Sup_Date DATE not null,
CONSTRAINT chck_fk_pid FOREIGN KEY(pid) REFERENCES PRODUCTS(pid),
CONSTRAINT chck_fk_sid FOREIGN KEY(sid) REFERENCES SUPPLIERS(sid),
CONSTRAINT chck_fk_sttid FOREIGN KEY(stid) REFERENCES STORES(stid));


create table EMPLOYEES(EID  varchar2(5) PRIMARY KEY,
STID varchar2(5),
fname char(10) not null,
lname char(10) not null,
phno varchar2(10) not null,
doorno varchar(10) not null,
street varchar2(10) not null,
area varchar2(10) not null,
```

```sql
city varchar2(10) not null,
state varchar2(10) not null,
CONSTRAINT chck_fk_stid FOREIGN KEY(STID) REFERENCES STORES(STID));


create table ORDERS(OID varchar2(5),
PID varchar2(5),
CID varchar2(5),
EID varchar2(5),
Price int NOT NULL,
Quantity int NOT NULL,
Bill_Date DATE NOT NULL,
PRIMARY KEY(OID,PID),
CONSTRAINT chck_fk_PPID FOREIGN KEY(PID) REFERENCES PRODUCTS(PID),
CONSTRAINT chck_fk_CCID FOREIGN KEY(CID) REFERENCES CUSTOMERS(CID),
CONSTRAINT chck_fk_EEID FOREIGN KEY(EID) REFERENCES EMPLOYEES(EID));
```
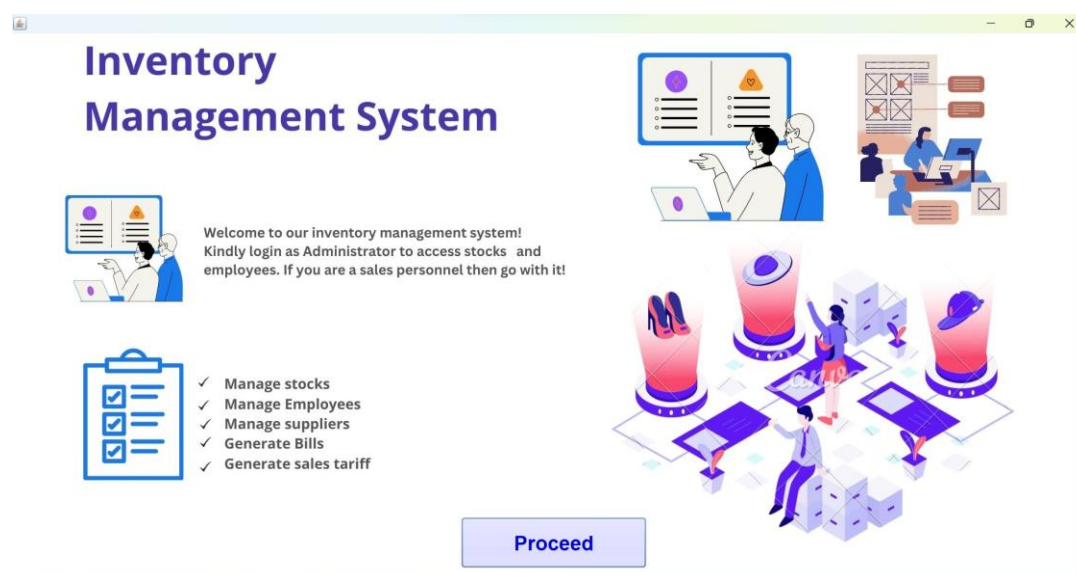
PLSQL Procedure: (for calculating total price of a product)

```sql
CREATE  OR REPLACE PROCEDURE Calc(Quantity IN int,Price IN int,tp OUT int) IS
BEGIN
tp:= quantity*price;
commit;
END;
/
```

PROGRAM WALKTHROUGH

Home Page

Login page
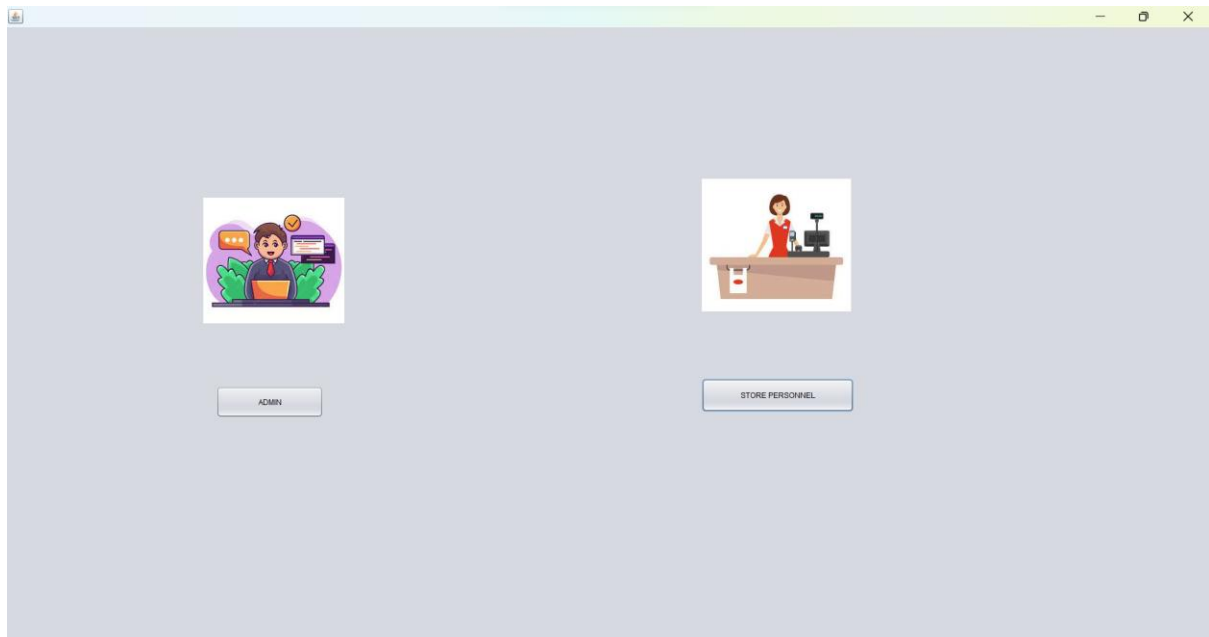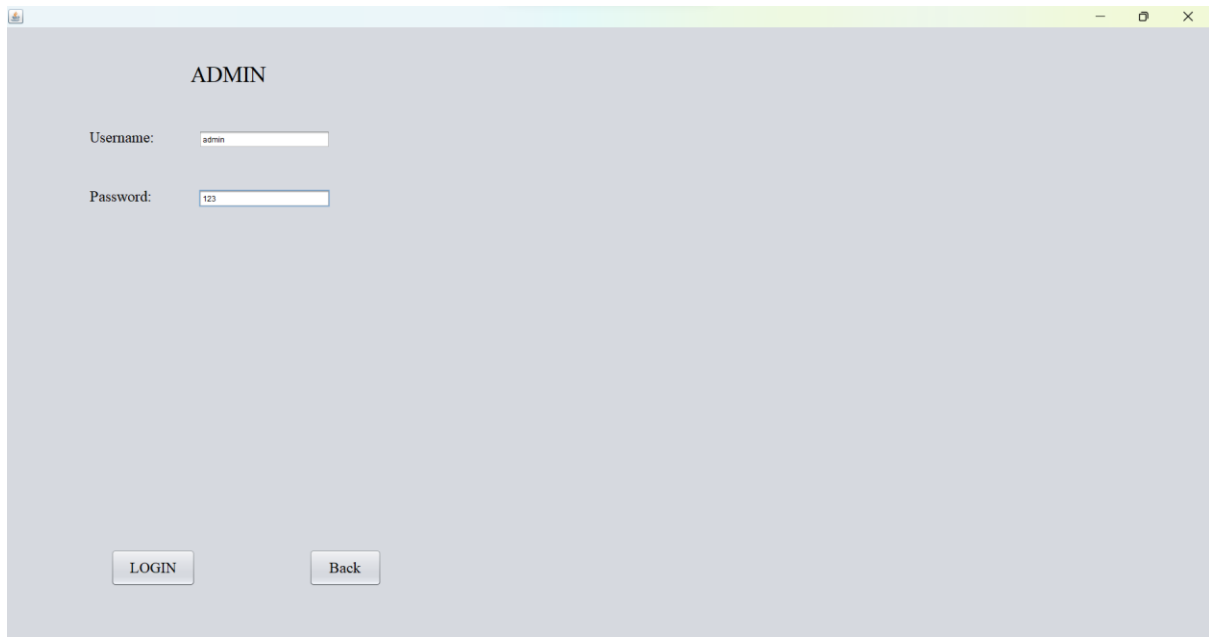
ADMIN LOGIN

Trying wrong password:
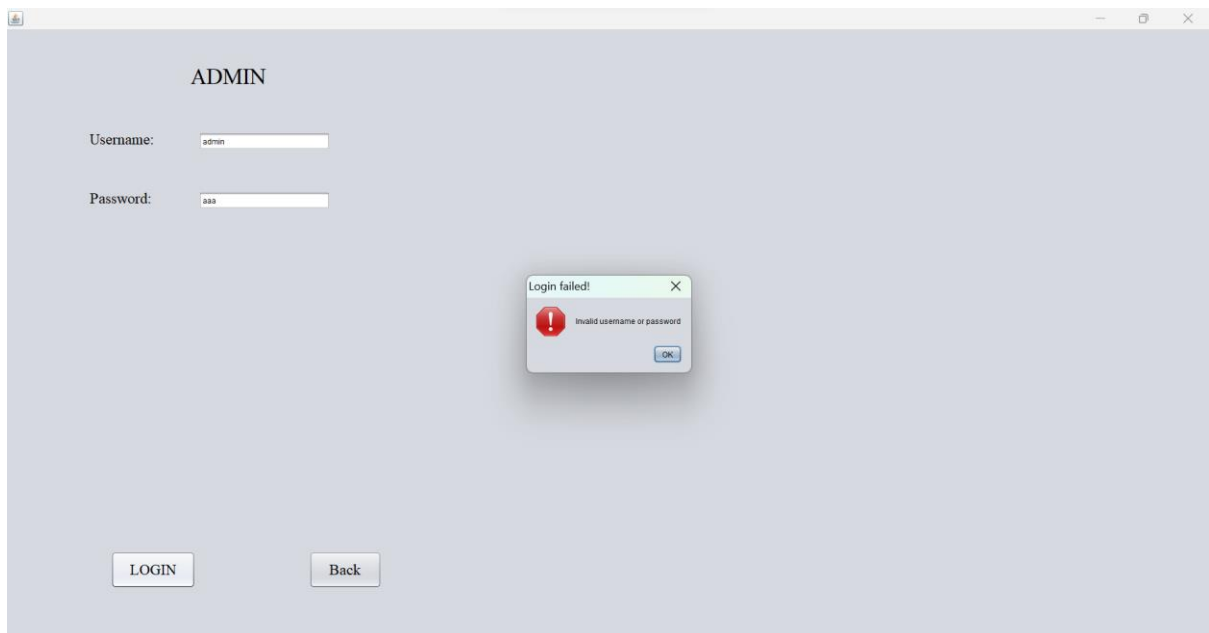
Now, giving correct password

ADMIN

Username: admin

Password: 123

LOGIN   Back

ADMIN HOME PAGE BEING DISPLAYED:

WELCOME!
ADMIN HOME

VIEW STOCK	VIEW SUPPLIER	VIEW EMPLOYEE
ADD STOCK	ADD SUPPLIER	ADD EMPLOYEE
UPDATE STOCK	UPDATE SUPPLIER	UPDATE EMPLOYEE
REMOVE STOCK	REMOVE SUPPLIER	REMOVE EMPLOYEE

Adding a product using 'ADD STOCK' option:
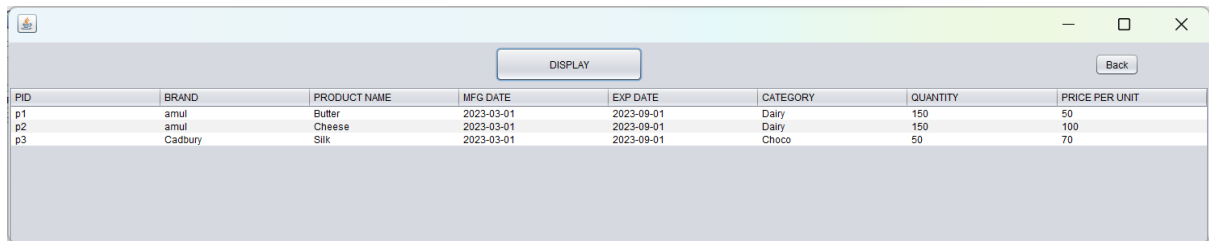
Product added in the table:
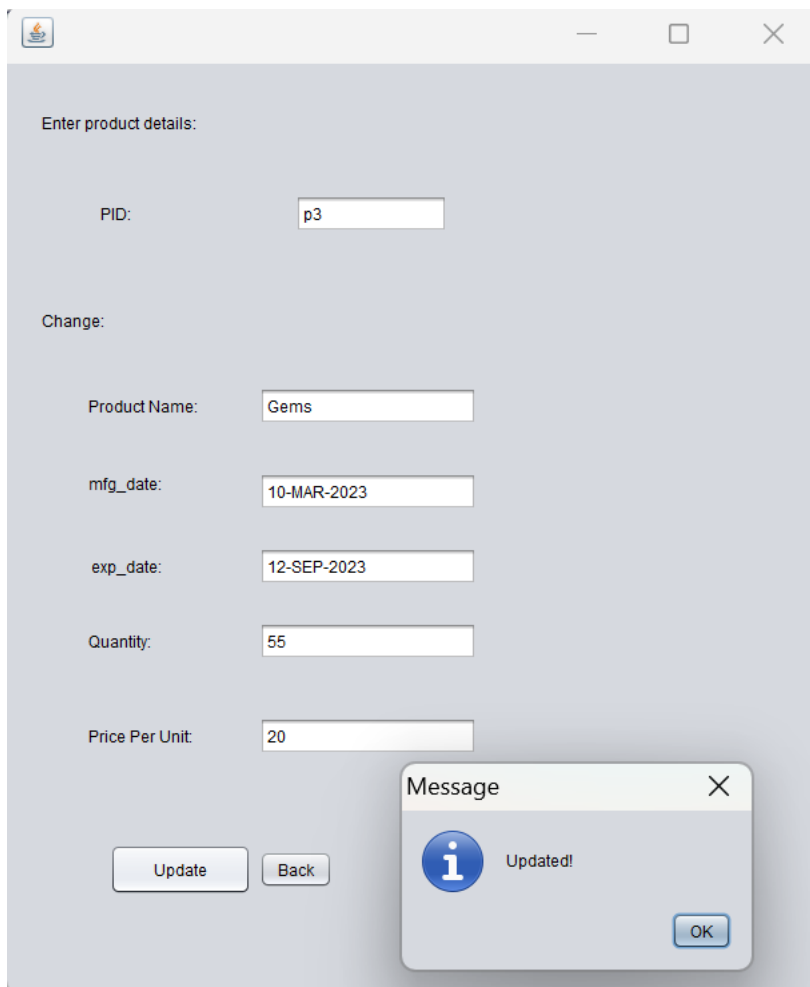
Adding Few more products and viewing the stock:

PID	BRAND	PRODUCT NAME	MFG DATE	EXP DATE	CATEGORY	QUANTITY	PRICE PER UNIT
p1	amul	Butter	2023-03-01	2023-09-01	Dairy	150	50
p2	amul	Cheese	2023-03-01	2023-09-01	Dairy	150	100
p3	Cadbury	Silk	2023-03-01	2023-09-01	Choco	50	70

DISPLAY   Back

Updating a product:

Enter product details:

PID: p3

Change:

Product Name: Gems

mfg_date: 10-MAR-2023

exp_date: 12-SEP-2023

Quantity: 55

Price Per Unit: 20

Update   Back

Message

Updated!

OK

Removing a product:

REMOVE PRODUCT

Enter the Product ID to remove from the stock: p2

REMOVE

Back

Message

Product Successfully Removed

OK

Viewing stock after above updations:

DISPLAY

Back

PID	BRAND	PRODUCT NAME	MFG DATE	EXP DATE	CATEGORY	QUANTITY	PRICE PER UNIT
p1	amul	Butter	2023-03-01	2023-09-01	Dairy	150	50
p3	Cadbury	Gems	2023-03-10	2023-09-12	Choco	55	20

Similarly adding and Viewing Suppliers:

Click to Display

Back

SUPPLIERS

Supplier ID	Supplier Name	Phone	Door No	Street	Area	City	State
sp1	Kanna	9800018765	10	Main St	Downing	Chennai	TamilNadu
sp2	Rajesh	9890876543	23	Cross St	TNagar	Chennai	TamilNadu
sp3	Sanjana	9890789765	45	Not St	Broadway	Chennai	TamilNadu

Click to display Employees

Back

EID	STID	FName	LName	Ph No	Door No	Street	Area	City	State
e2	st1	Virat	Kohli	0987654321	54G	Sunflower	Central	Delhi	Delhi
e1	st1	Mahi	Dhoni	9876543210	53G	Jasmine	Central	Ranchi	Jharkand

Admin Options over-----------------

Going to Staff Personnel login

Password validation:
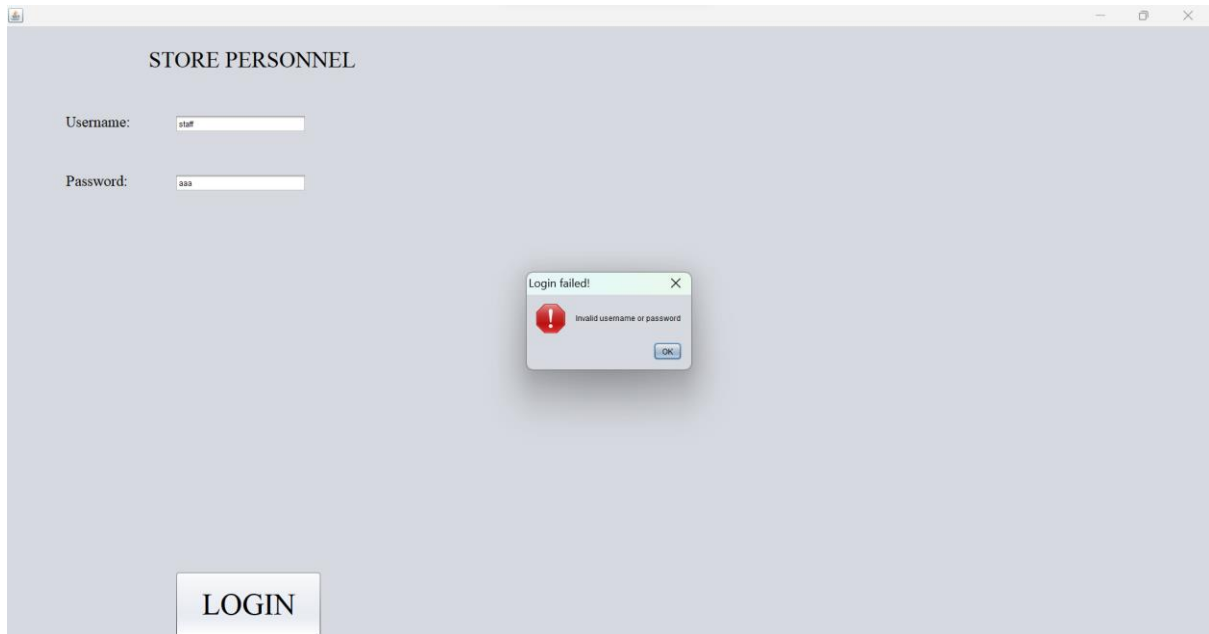
Now, entering correct password:

Staff Home Page:
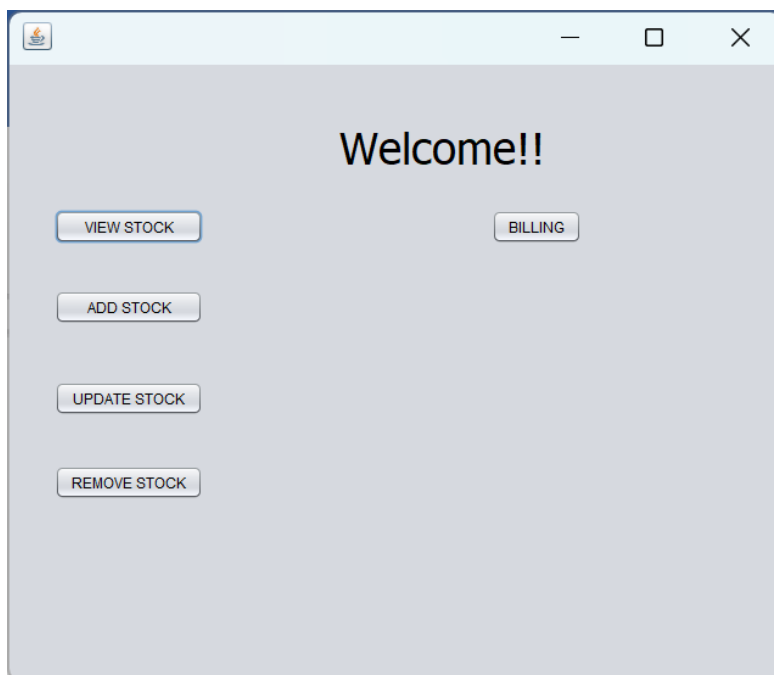
The stock manipulation options are similar to admins

Proceeding to Billing:

Billing page:

Note: Order ID is being generated by the program for each new order

Searching by product ID:

Clicking on the product record fills in the product ID, product name and unit price fields automatically:

Entering Quantity and calculating total price:

Clicking on ADD : (product gets added to cart)

Similarly entering the next Product:

Clicking Purchase and Generate Bill:

Order ID must be noted down

Clicking 'OK', staff would be directed to the Bill page:
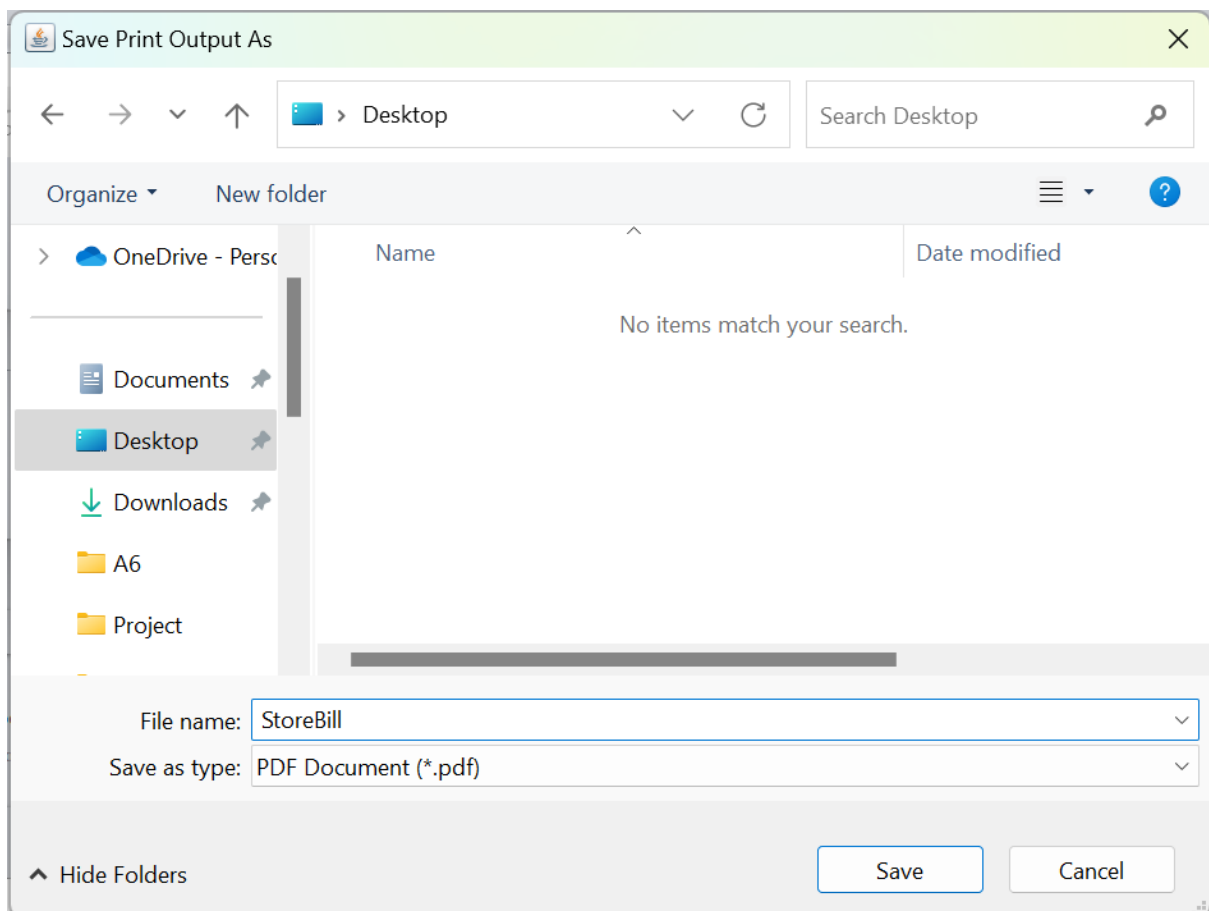
Enter order ID and click 'Generate Invoice':

The bill is displayed:

Also another window opens to select the destination where the invoice is to be saved:
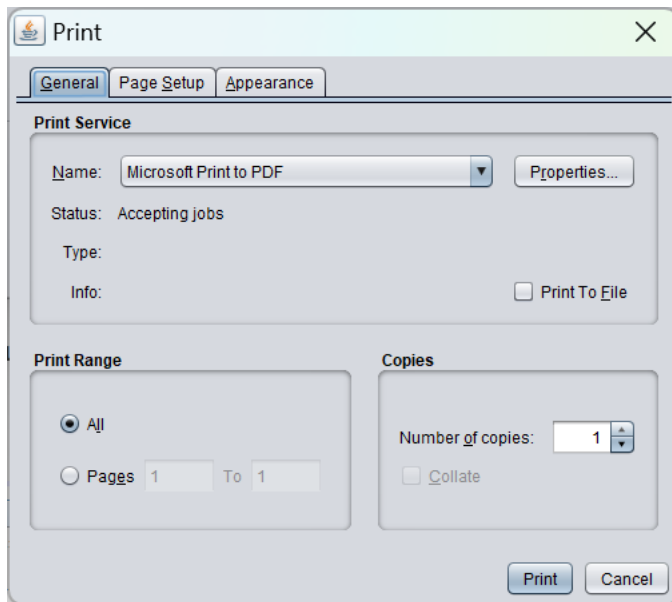
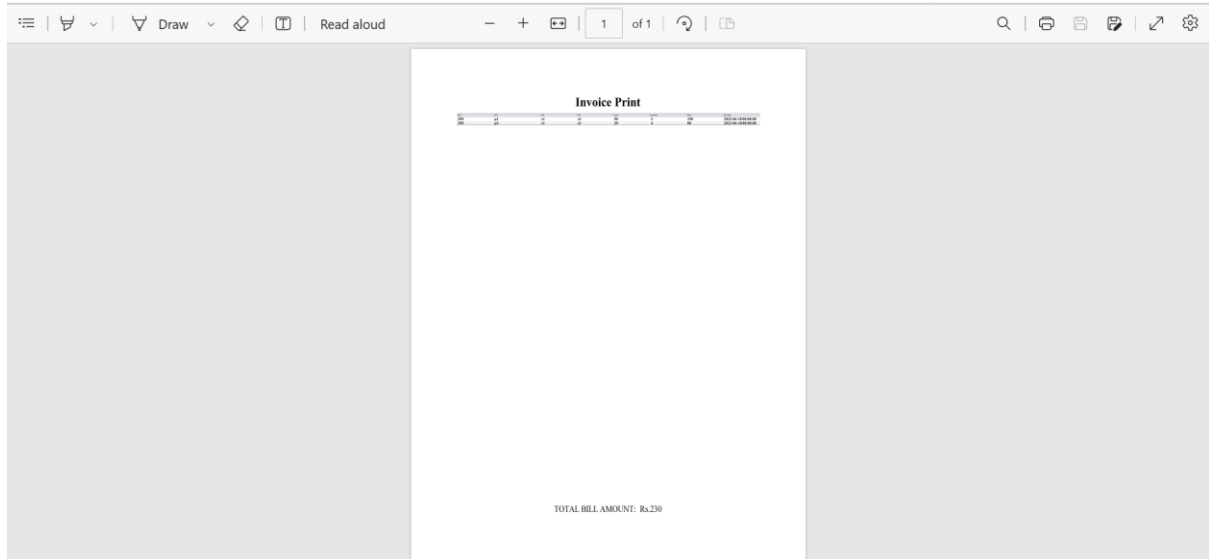Selecting Microsoft Print to PDF and clicking Print:

Selecting the location:

Click 'Save'

Going to the location and opening the bill:

The Invoice is generated as a pdf: