

The output of Student login

```
File Edit View Run Kernel Settings Help
+ X □ ▶ ■ ▷ Code Trusted
main()
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 1
Enter your ID: 2021002
Enter your password: 234567
Login successful!
1. Advance Food Preference
2. Pay the dues
3. Logout
Enter your choice: 1
Enter the date for the meal (YYYY-MM-DD): 2024-05-01
Available food items:
1: Pizza - 3 SAR
2: Burger - 3 SAR
3: Salad - 1 SAR
4: Pasta - 1 SAR
5: Sandwich - 2 SAR
6: Sushi - 2 SAR
7: Steak - 3 SAR
8: Chicken Curry - 4 SAR
9: Fish and Chips - 4 SAR
10: Tacos - 3 SAR
11: Burritos - 3 SAR
12: Hummus - 3 SAR
13: Falafel - 3 SAR
14: Kofta - 4 SAR
15: Mansaf - 5 SAR
16: Shawarma - 4 SAR
17: Kebabs - 2 SAR
18: Baklava - 2 SAR
Enter the item number and quantity (e.g., 1 2), or type 'done' to finish: 1 5
Enter the item number and quantity (e.g., 1 2), or type 'done' to finish: 3 1
Enter the item number and quantity (e.g., 1 2), or type 'done' to finish: 4 2
Enter the item number and quantity (e.g., 1 2), or type 'done' to finish: done
Food preferences submitted successfully!
Do you want to enter more preferences? (yes/no): no
1. Advance Food Preference
2. Pay the dues
3. Logout
Enter your choice: 2
Enter your bank account number: 2345678901
Enter your password: 234567
Payment successful!
1. Advance Food Preference
2. Pay the dues
3. Logout
Enter your choice: 3
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Manager login

```
DELL Latitude 7400
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 2
Enter your ID: 2021101
Enter your password: 123456
Login successful!
1. Display Food Demand
2. Logout
Enter your choice: 1
Date           Item            Quantity
2024-05-01     Pizza          5
2024-05-01     Salad          1
2024-05-01     Pasta          2
1. Display Food Demand
2. Logout
Enter your choice: 2
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Add Student)

```
File Edit View Run Kernel Settings Help Trusted ...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 1
Enter student ID: 202221920
Enter student name: Ahmed
Enter student password: 8364392
Enter bank account: 23435334
STUDENT added successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Add Manager)

```
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 2
Enter manager ID: 202221343
Enter manager name: Ali
Enter manager password: 123456
MANAGER added successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Update Student)

```
File Edit View Run Kernel Settings Help
+ Open in... Python 3 (ipykernel) Trusted
main()

Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 3
List of STUDENTs:
ID: 2021001, Name: Abdullah, Password: 123456
ID: 2021002, Name: Muhammad, Password: 234567
ID: 2021003, Name: Fatima, Password: 345678
ID: 2021004, Name: Aisha, Password: 456789
ID: 2021005, Name: Ahmed, Password: 567890
ID: 2021006, Name: Khadija, Password: 678901
ID: 2021007, Name: Ali, Password: 789012
ID: 2021008, Name: Omar, Password: 890123
ID: 2021009, Name: Hassan, Password: 901234
ID: 2021010, Name: Hussein, Password: 012345
ID: 2021011, Name: Ayesha, Password: 543210
ID: 2021012, Name: Yasir, Password: 654321
ID: 2021013, Name: Zainab, Password: 765432
ID: 2021014, Name: Mariam, Password: 876543
ID: 2021015, Name: Khadijah, Password: 987654
ID: 2021016, Name: Bilal, Password: 098765
ID: 2021017, Name: Zubair, Password: 987650
ID: 2021018, Name: Umar, Password: 876501
ID: 2021019, Name: Musa, Password: 765012
ID: 2021020, Name: Yusuf, Password: 650123
ID: 2021021, Name: Ibrahim, Password: 501234
ID: 2021022, Name: Hamza, Password: 012345
ID: 2021023, Name: Maryam, Password: 543210
ID: 2021024, Name: Aliya, Password: 654322
ID: 2021025, Name: Nour, Password: 765432
ID: 2021026, Name: Hana, Password: 876543
ID: 2021027, Name: Layla, Password: 987654
ID: 2021028, Name: Safa, Password: 098765
ID: 2021029, Name: Mustafa, Password: 987650
ID: 2021030, Name: Rayan, Password: 8765011122
Enter user ID: 2021002
Enter name (if you don't want to update this field press enter key):
Enter Password (if you don't want to update this field press enter key): 123123
STUDENT information updated successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Update Manager)

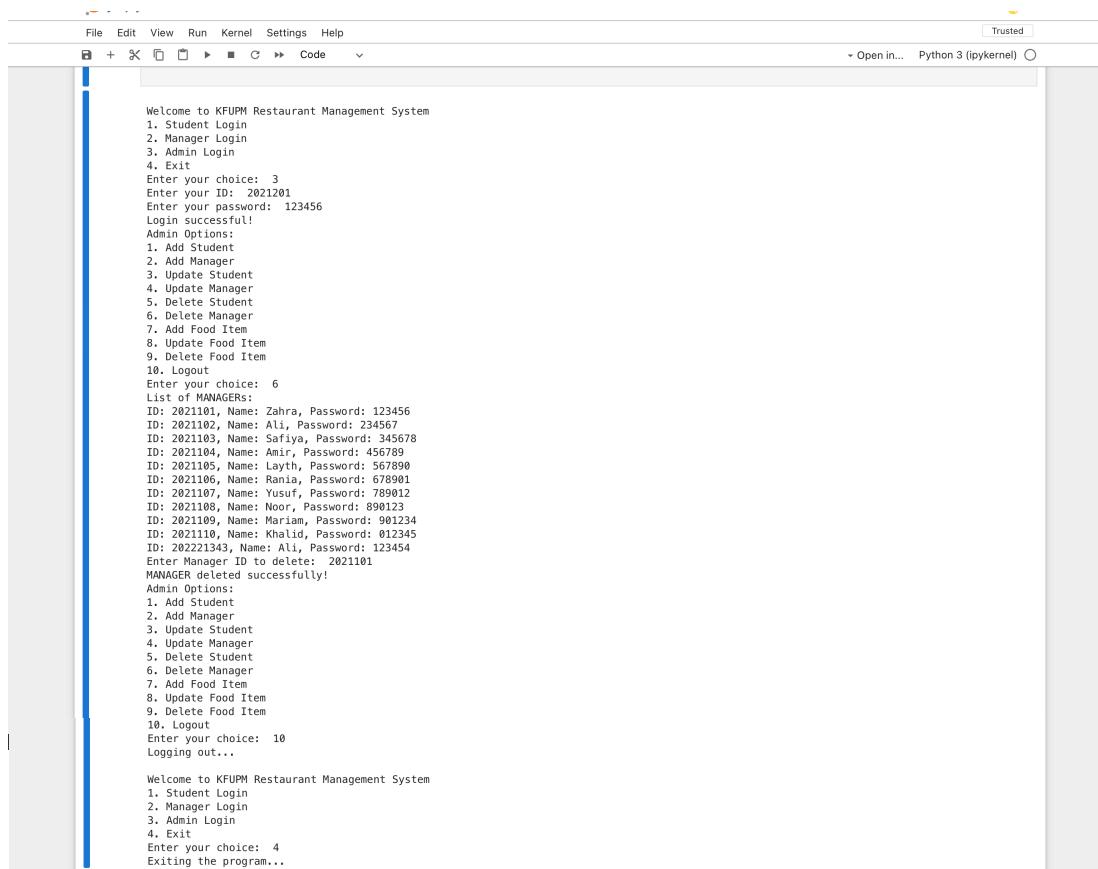
```
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 4
List of MANAGERs:
ID: 2021101, Name: Zahra, Password: 123456
ID: 2021102, Name: Idris, Password: 234567
ID: 2021103, Name: Safiya, Password: 345678
ID: 2021104, Name: Amir, Password: 456789
ID: 2021105, Name: Layth, Password: 567890
ID: 2021106, Name: Rania, Password: 678901
ID: 2021107, Name: Yusuf, Password: 789012
ID: 2021108, Name: Noor, Password: 890123
ID: 2021109, Name: Mariam, Password: 901234
ID: 2021110, Name: Khalid, Password: 012345
ID: 202221343, Name: Ali, Password: 123454
Enter user ID: 2021102
Enter name (if you don't want to update this field press enter key): Ali
Enter Password (if you don't want to update this field press enter key):
MANAGER information updated successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Delete Student)

```
File Edit View Run Kernel Settings Help
Trusted
Open in... Python 3 (ipykernel) ○

Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login Successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 5
List of STUDENTS:
ID: 2021001, Name: Abdullah, Password: 123456
ID: 2021002, Name: Muhammad, Password: 123123
ID: 2021003, Name: Fatima, Password: 345678
ID: 2021004, Name: Aisha, Password: 456789
ID: 2021005, Name: Ahmed, Password: 567890
ID: 2021006, Name: Khadija, Password: 678901
ID: 2021007, Name: Ali, Password: 789012
ID: 2021008, Name: Omar, Password: 890123
ID: 2021009, Name: Hassan, Password: 901234
ID: 2021010, Name: Hussein, Password: 012345
ID: 2021011, Name: Ayesha, Password: 543210
ID: 2021012, Name: Yasir, Password: 654321
ID: 2021013, Name: Zainab, Password: 765432
ID: 2021014, Name: Mariam, Password: 876543
ID: 2021015, Name: Khadijah, Password: 987654
ID: 2021016, Name: Bilal, Password: 098765
ID: 2021017, Name: Zubair, Password: 987650
ID: 2021018, Name: Umar, Password: 876501
ID: 2021019, Name: Musa, Password: 765012
ID: 2021020, Name: Yusuf, Password: 650123
ID: 2021021, Name: Ibrahim, Password: 501234
ID: 2021022, Name: Hanza, Password: 012345
ID: 2021023, Name: Maryam, Password: 543210
ID: 2021024, Name: Aliya, Password: 654321
ID: 2021025, Name: Nour, Password: 765432
ID: 2021026, Name: Hana, Password: 876543
ID: 2021027, Name: Layla, Password: 987654
ID: 2021028, Name: Safa, Password: 098765
ID: 2021029, Name: Mustafa, Password: 987650
ID: 2021030, Name: Rayan, Password: 8765011122
Enter Student ID to delete: 2021001
STUDENT deleted successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Delete Manager)



The screenshot shows a Jupyter Notebook interface with the following content:

```
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 6
List of MANAGERS:
ID: 2021101, Name: Zahra, Password: 123456
ID: 2021102, Name: Ali, Password: 234567
ID: 2021103, Name: Safiy, Password: 345678
ID: 2021104, Name: Amir, Password: 456789
ID: 2021105, Name: Layth, Password: 567890
ID: 2021106, Name: Rania, Password: 678901
ID: 2021107, Name: Yusuf, Password: 789012
ID: 2021108, Name: Noor, Password: 890123
ID: 2021109, Name: Mariam, Password: 901234
ID: 2021110, Name: Khalid, Password: 012345
ID: 202221343, Name: Ali, Password: 123456
Enter Manager ID to delete: 2021101
MANAGER deleted successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Add Food Item)

The screenshot shows a Jupyter Notebook interface with a blue vertical sidebar on the left. The main area displays the following terminal output:

```
File Edit View Run Kernel Settings Help Trusted
+ X Code ▾ Open in... Python 3 (ipykernel) ○

Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 7
Enter food item name: Kabsa
Enter food item price: 3
Food item added successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Update Food Item)

```
File Edit View Run Kernel Settings Help Trusted
+ % □ ▶ Code ▾ Open in... Python 3 (ipykernel) ○

Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 8
Available food items:
1: Pizza - 3 SAR
2: Burger - 3 SAR
3: Salad - 1 SAR
4: Pasta - 1 SAR
5: Sandwich - 2 SAR
6: Sushi - 2 SAR
7: Steak - 3 SAR
8: Chicken Curry - 4 SAR
9: Fish and Chips - 4 SAR
10: Tacos - 3 SAR
11: Burritos - 3 SAR
12: Hummus - 3 SAR
13: Falafel - 3 SAR
14: Kofta - 4 SAR
15: Mansaf - 5 SAR
16: Shawarma - 4 SAR
17: Kebabs - 2 SAR
18: Baklava - 2 SAR
19: Kabsa - 3 SAR
Enter item number to update: 3
Enter new food item name (if you don't want to update this field press enter key):
Enter new food item price (if you don't want to update this field press enter key): 4
Food item updated successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```

The output of Admin login (Delete Food Item)

```
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 3
Enter your ID: 2021201
Enter your password: 123456
Login successful!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 9
Available food items:
1: Pizza - 3 SAR
2: Burger - 3 SAR
3: Salad - 4 SAR
4: Pasta - 1 SAR
5: Sandwich - 2 SAR
6: Sushi - 2 SAR
7: Steak - 3 SAR
8: Chicken Curry - 4 SAR
9: Fish and Chips - 4 SAR
10: Tacos - 3 SAR
11: Burritos - 3 SAR
12: Hummus - 3 SAR
13: Falafel - 3 SAR
14: Kofta - 4 SAR
15: Mansaf - 5 SAR
16: Shawarma - 4 SAR
17: Kebabs - 2 SAR
18: Baklava - 2 SAR
19: Kabsa - 3 SAR
Enter item number to delete: 2
Food item deleted successfully!
Admin Options:
1. Add Student
2. Add Manager
3. Update Student
4. Update Manager
5. Delete Student
6. Delete Manager
7. Add Food Item
8. Update Food Item
9. Delete Food Item
10. Logout
Enter your choice: 10
Logging out...
Welcome to KFUPM Restaurant Management System
1. Student Login
2. Manager Login
3. Admin Login
4. Exit
Enter your choice: 4
Exiting the program...
```