**Roll No: 21Sw039**

**Documentation Of Hotel Management System:**

**import java.io.\*** :- It import's the input and output function's,and more we are used in file operation's like open close save etc....

**import java.io.serialization :-** Java provides a mechanism, called object serialization where an object can be represented as a sequence of bytes that includes the object's data as well as information about the object's type and the types of data stored in the object.

**import java.util.ArrayList :** Java ArrayList class uses a dynamic array for storing the elements. It is like an array, but there is no size limit*.* We can add or remove elements anytime.

**import java.util.Scanner :** import to read input from the Keyboard.

**import java.lang.thread:** The Thread class is defined in the package java.lang, which needs to be imported so that our classes are aware of its definition.

**import java.lang.Exception:** Java provides Java.lang.Exception class for handling the exceptions which inherit the properties and methods of **Object**and **Throwable** class.

**Classes and Methods we used in Project:**

1. **Food**
2. **Singleroom**
3. **Doubleroom**
4. **NotAvailable**
5. **ToString Method:** (to show rooms are available or not.)
6. **Holder**
7. **Hotel**
8. **CustDetails:** (used for Customer details)
9. **Bookroom:** (This method is used for booking a room and in this method we use switch statement to choose a room according the customer needs**.**)
10. **Features:** (Used to show the features of single and double room.)
11. **Availability:** (Used to show the limits of single and double room.)
12. **Bill:** (Used to show the total bill of ordered food and rent of room.)
13. **Deallocate:** (Used to show the details of room.)
14. **Order:** (This method is used for order the food.)
15. **Write extends Thread**

**Run:** (Used for backup process and exception that might occur.)

1. **Main**

**Main:** (In this method we are creating a file in which we store the customer data and room details etc…)

**Other Important things we used:-**

**🡪Aggregation**

**🡪Threading**

**🡪Exception**

**Also:**

**Constructors**

**Switch Statement**

**If else statement**

**For loop**

**While loop**