**Lab on Java Important programs (All units)**

1. Design a class to represent a bank account. Create appropriate data members and write methods to perform following task :

* Assign initial value to all data members using constructor.
* Deposit an amount.
* Withdraw an amount after checking balance.
* Display the name and balance.

1. Write a class Student with properties

* rollno.
* name
* program
* semester

with parameterized constructor. Also provide methods to set and get values. Also

write main method to create object to this class. Use this class to create instances and

display them.

1. Using try,catch, finally demonstrate exception handling.
2. WAP in java to implement multiple inheritance using interface.
3. WAP in java to demonstrate method overloading.
4. WAP in java to demonstrate method overriding.
5. WAP in java to multiply two matrices.
6. Create an interface shape. Also create two classes – circle and Rectangle and find the area of circle and rectangle.
7. WAP in java to demonstrate the use of abstract class and abstract methods.
8. WAP in java to create threads using Runnable interface.
9. WAP in java to create threads by extending thread class.
10. WAP in java to show the concept of thread synchronization.
11. WAP in java to write data in a file using DataOutputStream.
12. WAP in java to read data using BufferedOutputStream.
13. WAP in java to copy contents of one file to another.
14. WAP in java that shows the implementation of Applets in java.
15. WAP in java to create a form that contains label, Buttons, textfield, TextArea, list, checkbox, radiobuttons, scrollbar and menu using AWT.
16. Develop a class student to store roll number, name and total marks. Use parameterized constructor to intialize values.
17. Create an interface ‘shape’. Also create two classes Circle and Rectangle and find the area of circle and rectangle.
18. Write a program in java to implement hierarchical inheritance
19. Write a program in java to implement multilevel inheritance.

**Note: Also refer your practical file questions**