

Heaven's Light is Our Guide
Rajshahi University of Engineering & Technology
Department of Computer Science & Engineering

Lab Manual

Course Code: **CSE 1204 (Sec A)**
Course Title: Sessional based on CSE 1203
Instructor: Md. Shahid Uz Zaman
Dept of CSE, RUET

Module 7 [Advanced Topics: Java Programming]: (for Week 11)

Topic 1[inheritance: use of super keyword]

Problem Statement: For the following Java program write

- i) to display x of class A in class B
- ii) statement to call getX() of class A in class B
- iii) to call parameterized constructor of in class B

<pre>class A{ int x; public A(){ x=0; } public A(int x){ this.x=x; } public int getX(){ return(x+10); } } class B extends A{ int x=20; public int getX(){ return(x+10); } } public class First{ public static void main(String[] args) { } }</pre>	
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Topic 2[interface in Java]

Problem Statement: Write three interfaces in Java namely AI, BI and CI with the following activities:

- i) Declare method PrintA() in AI
- ii) Declare method PrintB() in BI
- iii) Declare method PrintC() in CI
- iv) write body of PrintA() in class A
- v) write body of PrintB() in class B which is inherited from class A
- vi) write body of PrintC() in class C which is inherited from class B
- vii) Create object of class C in main() of First class and invoke PrintA(), PrintB() and PrintC()

Topic 3[java swing: Money Changer]

Problem Statement: Write a Money Changer program in Java with the following components. When user clicks **Convert** button, its shows the output in a label. It also show error message if user inputs wrong value to the input box.

The image shows a Java Swing window titled "Money Changer". Inside the window, there is a label "Input \$" followed by a text input field containing the number "3". To the right of the input field is a label "Tk 310". Below these elements is a button labeled "Convert".

Topic 4[java swing: practice]

Problem Statement: Write any real-life program you like using java swing.