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
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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

```java
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) {

  }
}
```
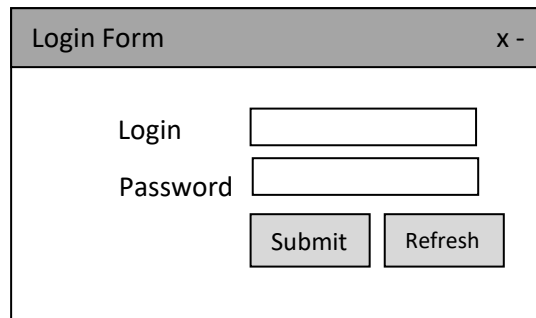
Topic 2[interface in Java]
Problem Statement: Write three interfaces in Java namely AI,BI and CI with the following activities:
- i)   Declare method PrintA() in AI
- ii)   Declare method PrintB() in BI
- iii)   Declare method PrintC() in CI
- iv)   write body of PrintA() in class A
- v)   write body 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: Login Form]
Problem Statement: Write a Java program to produce a login form using Java swing features. The form checks login and password when click the submit button. If the input login and password are correct and it displays "Login Successful" message otherwise it displays "Invalid login/password" message.

Login Form	x -
Login	_____
Password	_____
	Submit Refresh

Topic 4[java swing: practice]
Problem Statement: Write any real-life program you like using java swing.