**Single Generics**

package pack1;

class Example<T>

{

T var;

public T getVar( ) { return var; }

public void setVar(T v) { var = v; }

}

public class GenericsDemo {

public static void main(String[] args) {

Example<String> obj1 = new Example<String>( );

Example<Integer> obj2 = new Example<Integer>( );

obj1.setVar("Hello");

obj2.setVar(10);

System.out.println(obj1.getVar( ));

System.out.println(obj2.getVar( ));

}

}

**Multiple Generics**

package pack2;

class Example<T,S>

{

private T var1;

private S var2;

public T getVar1( ){ return var1; }

public S getVar2( ){ return var2; }

public void setVar1(T v1) { var1 = v1; }

public void setVar2(S v2) { var2 = v2; }

}

public class MultipleGenerics {

public static void main(String[] args) {

Example<Integer,Float> obj1 = new

Example<Integer,Float>( );

obj1.setVar1(10);

obj1.setVar2(20.5f);

System.out.println("Var 1 :"+obj1.getVar1( )+

"Var 2 :"+obj1.getVar2( ));

Example<Integer,String> obj2 = new

Example<Integer,String>( );

obj2.setVar1(10);

obj2.setVar2("Hello");

System.out.println("Var 1 :"+obj2.getVar1( )+

"Var 2 :"+obj2.getVar2( ));

}

}

**Generic Function**

package pack3;

class Demo

{

public <T> void display(T arg)

{

System.out.println(arg);

}

}

public class GenericFunction {

public static void main(String[] args) {

Demo obj1 = new Demo( );

obj1.<String>display("Welcome to KLU");

Demo obj2 = new Demo( );

obj2.<Integer>display(10);

}

}

**Bounded Generics**

package pack4;

class Demo <T extends Number>

{

private T var;

public T getVar( ) { return var; }

public void setVar(T v) { var = v; }

}

public class BoundedGenerics {

public static void main(String[] args) {

Demo<Integer> obj1 = new Demo<Integer>( );

obj1.setVar(10);

System.out.println(obj1.getVar( ));

Demo<Float> obj2 = new Demo<Float>( );

obj2.setVar(15.5f);

System.out.println(obj2.getVar( ));

// Demo<String> obj1 = new Demo<String>( );

// It will not accept String class.

}

}