week 10

AgeMain.java

```
import java.util;
class WrongAge extends Exception
{
int F, S;
Wrong Age (int father age, int sonage)
{
F = father age
S = Sonage;
}
}
class Father
{
int father age;
int Sonage;
Father (intf, int s) throws, Wrong age
{
if (f == s)
throw new Wrong Age (father age, sonage);
else
{
throw new Wrong Age (father age, Sonage);
```

```
else
{
this.fatherage = f;
this.sonage = s;
}
}
}
class Son Extends Father
{
Son (int f, int s) throws WrongAge
{
Super (f, s);
if (s >= f)
throw new WrongAge (fatherage, sonage);
System.out.println ("Valid age");
}
void display()
{
System.out.println ("Father's Age : "+Fatherage);
System.out.println ("Son's Age : "+sonage);
}
}
class AgeMain
{
public static Void main (String [] args)
```

```
{
 int f, s;
Scanner S=new Scanner (System.in);
System.out.println("Enter father's age),
f=S.nextInt();
System.out.println("Enter Son's Age:");
S=S.next In();
try
{
Son S1=new Son (f,S);
S1.display();
}
Catch (Wrong Age e)
{
System.out.println("Exception "+e);
}
}
}
```

Gen. java

```
import java.util.*;
class ThreeGen<T, V, S>
{
 T ob1;
 V ob2;
 S ob3;

ThreeGen(T o1, V o2, S o3)
{
 ob1 = o1;
ob2 = o2;
ob3 = o3;
}
Void display void showType()
{
System.out.println("Type of T is" + ob1.getclass().getName());
System.out.println("Type of V is" + ob2.getclass().getName());
System.out.println("Type of S is " + ob3.getclass().getName());
}
T getob1()
{
return ob1;
}
V getob2()
```

```
{
 return ob2;
}
S get ob3()
{
 return ob3;
}
}
class Gen
{
public static void main(String args[])
{
ThreeGen <Integer, String, Double> tgobj = NewthreeGen <
 Integer, string Double> (88, "Generics", 0.4);
tgobj.showTypes();
int v = tgobj.getob1();
System.out.println("Value: "+V);
string str = tgobj.getob2();
System.out.println("value: "+ str);
double S = tgobj.getob3();
System.out.println("Value"+S);
}
}
```