10.1 (1.20.1×12)	
Lab program 10:- (Week 12)	
Pimport java. ant, *;	
import java ast event.	
La time antenda forceration of	,
Jan Num Exception extends Exception {	
public String to String U	
d "Tale is a As Manachic for crotion" "	
return "There is an Arithmetic Excuption" !!	
Mass Formet Exception extends Exception f.	
public Stling to Stling U	
f frantin,"	
return "These is an Formet Exception.";	
public dans dividenums extends frame impléments Action	istenes E.
public dans dividenmes extense montes	
Tesch Stield numb, numb	
Button div;	
double result;	
String mg="The result is: 0.0";	
public dividenums ()	
{ (, , , (, , , , , , ,));	
setlayout (new flow Layout ()); Label rum In = new label ("Numerator: ", Label. RIGHT);	
Label num in = new Label ("Deno menetor: "8, Label. RIGHT);	
(abel numen = new lavel (our report	
Button div = new Button ("Divide")	
nun1 = now Text field (5);	4
nun 2 = new Textfield(5);	
add (mmtn);	
add (num1);	
add (num 2n);	
add (num2);	
add (div);	

```
num 1. add Action Listener (this);
    num 2. add Action Listener (this);
    div. add Action Listener (this);
   add Window Listener (new Window Adepter ()
      public void window Clasing (Window Friend we)
          Jystem exit (0);
   });
  public boolean is Double (double num)
     double doc:
      dec = num - (int) num;
     if dec == 0.0)
public double divide (double a, double b) throws -
               - Num Exception, Formed Exception
    if ( 6 =0.0)
      throw new Number reption ();
    else if (istouble (a) 11 is Double (b))
     throw new formet Exception ();
  roturn (double) 9/6;
```

```
public void action Performed (Action Event ae)
         double a, b;
         a= Double parge Double (num 1 . get Fest U);
         b= Double passe Double ( num 2 get Teact (1);
          redult = divide (a, b);
         mg= ("The result is: "+ result);
         catch (Num Escape ception ne)
           3 = ne. tosting ();
          catch (format Exception fe)
           msg=fe.tostsing();
         repaint();
   public void paint ((xrapheics g)
     g. draw String (mg, 50, 150);
public static void main (thing args[])
  dividenumy appoin = new dividenumy ();
     appwin setsize (new Dinenjions (350, 300));
     appoin sextifle ( Divide Two Numbers");
    appuin. Set Visible (+ Zue);
```

Divide Two Numbers			×
Numerator: 12	Denominator.	5	
Di	vide		

The result is: 2.4

Divide Two Numbers	_		×
Numerator: 12.6	Denominator:	5	
C	ivide		

There is an Format Exception.

Divide Two Numbers	<u> </u>		\times
Numerator: 20	Denominator.	0	
Į.	Divide		

There is an Arithmetic Exception.