```
Class thread implements mun
t = new thread (this, "thread!");
$ System out println ("BMS college");
thread . Skep (100000);
  Catch (Interrupted exception ie)
 System out print In (" Interrupted");
   Class thread implements Rumable
  thread 2 (
  +2 = new thread (this, "thread 2");
     tz. Start ();
```

```
class CarService {
public static void main(String args[]){
Car_Queue q= new Car_Queue();
new Car_Owner(q);
new Car_Mechanic(q);
System.out.println("Press Ctrl+C to stop.");
}
}
class Car_Queue{
int n;
boolean valueSet = false;
synchronized int get()
{
while(!valueSet)
try{
wait();
```

```
}
catch (InterruptedException e)
1
System.out.println("InterruptedException caught");
}
System.out.println("Service Provided:"+n);
valueSet = false;
notify();
return n;
}
synchronized void put(int n)
{
while(valueSet)
try(
wait();
}
catch(InterruptedException e)
```

```
1
System.out.println("InterruptedException caught");
}
this.n=n;
valueSet = true;
System.out.println("Order placed:"+n);
notify();
}
}
class Car_Mechanic implements Runnable
{
Car_Queue q;
Car_Mechanic(Car_Queue q)
{
this.q=q;
new Thread(this, "Car_Mechanic").start();
}
```

```
public void run(){
int i=0;
while(true){
q.put(i++);
}
}
}
class Car_Owner implements Runnable {
Car_Queue q;
Car_Owner(Car_Queue q)
1
this.q=q;
new Thread(this, "Car_Owner").start();
}
public void run()
```

Command Frompt Order placed:4756 Service Provided: 4756 Order placed:4757 Service Provided: 4757 Order placed:4758 Service Provided:4758 Order placed:4759 Service Provided: 4759 Order placed:4760 Service Provided: 4760 Order placed: 4761 Service Provided:4761 Order placed: 4762 Service Provided:4762 Order placed:4763 Service Provided: 4763 Order placed:4764 Service Provided: 4764 Order placed: 4765 Service Provided: 4765 Order placed: 4766 Service Provided:4766 Order placed: 4767 Service Provided: 4767 Order placed:4768 Service Provided:4768 Order placed:4769 Service Provided: 4769 Order placed:4770 Service Provided: 4778 Order placed:4771 Service Provided: 4771 Order placed:4772 Service Provided: 4772 Order placed: 4773 Service Provided:4773 Order placed: 4774 Service Provided: 4774 Order placed:4775 Service Provided: 4775 Order placed:4776 Service Provided: 4776 Order placed:4777 Service Provided: 4777 Order placed:4778 Service Provided: 4778 Order placed:4779 Service Provided:4779 Order placed:4780 Service Provided: 4780 Order placed: 4781 Service Provided: 4781 Order placed:4782 Service Provided: 4782 Order placed: 4783 C:\Users\IEMP.ADMIN.002\Documents\ooilab>

volar Car Service [

public estatic boid main (String args []) Car Queue q = new Car queue(); hew Car Nechanic (9); System. out printen (" press Gel + c to stop 1) class Car queue & boolean valuelet = false; synchronized int get () while (! Valueset) Catch (Interrepted Exception e) System out printer "Intellyted Exception con System put plintln ("Service provided: "+n)
Value Set = false;
notify ();
return n;

synchronized void put (int n) while (ValueSet) (wait (); System out prinths "Intucupted Exception caught") this. n = n: Value Set = tene; System out yearlb ("osclered placed:"+n); notify() clas Cas Mechanic implements Rumalle Cas Queue 9; Cas Nechamic (car gueue 2) how Phread (this, "Cas Melanic"). etae Jublic void run() { unt i = 0; while (trus) of y, y

```
class Table
{
void printTable(int n)
        {
synchronized(this)
{
for(int i=1;i<=5;i++)
{
System.out.println(+n+"*"+i+"="+(n*i));
try
{
Thread.sleep(400);
}
catch(Exception e)
{
System.out.println(e);
```

```
}
}
}
}
}
class Mythread1 extends Thread
1
Table t;
Mythread1(Table t)
{
this.t=t;
1
public void run()
{
t.printTable(5);
```

```
}
}
class Mythread2 extends Thread
1
Table t;
Mythread2(Table t)
{
this.t=t;
}
public void run()
{
t.printTable(10);
}
}
```

```
class Use
1
public static void main(String args[])
Table obj = new Table();
Mythread1 th1 = new Mythread1(obj);
Mythread2 th2 = new Mythread2(obj);
th1.start();
th2.start();
}
}
```

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.
```

```
C:\Users\IEMP.ADMIN.002>cd documents
```

```
C:\Users\IEMP.ADMIN.002\Documents>cd oojlab
```

```
C:\Users\IEMP.ADMIN.002\Documents\oojlab>javac Use.java
```

```
C:\Users\IEMP.ADMIN.002\Documents\oojlab>java Use
```

```
5*1=5
```

C:\Users\IEMP.ADMIN.002\Documents\oojlab>_

```
Void print table (int n)
  Synchronized (Huis)
       (int i = 1; i < = 5; i++)
 System. out. printly (+n+"*"+"+"="+(n*1));
Hurad. Sleep (400);
s catch (exceptione)
System. out. println(e);
  class mythread 1 extends thread
      thread (table t)
       public void run (
            t. print table (5); 34
```

class Mythread 2 extends thread My thread 2 (table t) public Static void main (String args [] table Obj = new table ():

My thread | th1 = new my thread (Obj).

My thread 2 th2 = new my thread (Obj thi, Start (); the Startli;

```
import javax.swing...
public class integerdivision extends Frame implements ActionListener(
TextField n1,n2,res;
Label In1, In2, Ires;
Button b:
public integerdivision(){
setLayout(new FlowLayout());
Label In1=new Label("NUMBER 1", Label RIGHT);
Label In2=new Label("NUMBER 2", Label RIGHT);
Label Ires=new Label("RESULT", Label.RIGHT);
n1=new TextField(12);
n2=new TextField(8);
res=new TextField(10);
b=new Button("DIVIDE");
add(In1);
add(n1);
add(ln2);
add(n2);
add(b);
add(Ires);
add(res);
b.addActionListener(this);
addWindowListener(new WindowAdapter1());
public void actionPerformed(ActionEvent ae)
 ifina antCouran/1--hi
      P Type here to search
                                            0
```

Ln 17, Col 11

UTF-8

16-01-2021

100% Windows (CRLF)

^ 0 ← 🖼 🚱 🛝 🔚 ENG

```
mport java.awt.*;
mport java.awt.event.*;
mport javax.swing.";
public class integerdivision extends Frame implements ActionListener(
TextField n1,n2,res;
Label In1, In2, Ires;
Button b:
public integerdivision(){
setLayout(new FlowLayout());
Label In1=new Label("NUMBER 1",Label.RIGHT);
Label In2=new Label("NUMBER 2", Label.RIGHT);
Label Ires=new Label("RESULT", Label.RIGHT);
n1=new TextField(12);
n2=new TextField(8);
res=new TextField(10);
b=new Button("DIVIDE");
add(ln1);
add(n1);
add(ln2);
add(n2);
add(b);
add(Ires);
add(res);
b.addActionListener(this);
addWindowListener(new WindowAdapter1());
within unid nation Darformad/Antion Event and
     P Type here to search
```





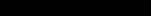














UTF-8



```
D. AUUACION LISTEN EN (II IIS),
addWindowListener(new WindowAdapter1());
public void actionPerformed(ActionEvent ae)
if(ae.getSource()==b)
try{
int num1=Integer.parseInt(n1.getText());
int num2=Integer.parseInt(n2.getText());
int num3=num1/num2;
res.setText(String.valueOf(num3));
)catch(NumberFormatException ne ){
JOptionPane.showMessageDialog(this,ne,"ERROR",
JOptionPane.ERROR_MESSAGE);
catch(ArithmeticException a){
JOptionPane.showMessageDialog(this,a,"ERROR",
JOptionPane.ERROR_MESSAGE);
public static void main(String args[])
integerdivision i=new integerdivision();
i.setSize(new Dimension(400,400));
         MINITECED DIVIGIONI OF THIO AII IN IDEDCA
      O Type here to search
```

Ln 17, Col 11

100% Windows (CRLF)

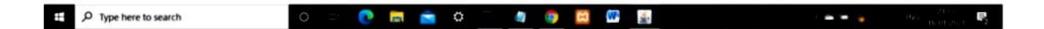
^ 0 → 🖦 🚱 🚜 🖂 sNG

UTF-8

INTEGER DIVISION OF TWO NUMBERS

NUMBER 1 18 NUMBER 2 5 CHACE RESULT 2

- o ×































- 0 ×



```
import java awt *;
import java aut even! 4;
impost javax. swing . * ;
public class integerdivision extends Frame implements Activaling
 Textfield 12, 12, ses;
 tabel Ins, Ind, Ises;
 Bublic integerdivision ()
 sellayout (new Flowlayout ()):
 label in1 = new label (* NUMBER 1 , Label RIGHT);
 label Ind = new label (* NUMBER 2*, Label-RIGHT);
 Label Tres = new Label (* RESULT *, Label. RIGHT);
 n1 = new Textfield (12);
  ha = new Textfield (B);
 . les = new Textfield (10);
  b = new Bufton (* DIVIDE*);
 add (In1);
 add (n1);
  add (Ina);
  add (na);
  add (Ires);
   add (res);
 b. add Action Listener (this);
  addwindowlistence (new WindowAdapter 1 ());
  public roid acition performed (action Event ae)
   if (al. gelsource () == 6)
```

```
tay
int nums = Integer : parse Int (ns.getJext());
int numd = Integer. passeInt (nd. get Jext());
int num 3 = numi / num 2;
 res. get Jext (String. value of (num 3));
 catch (Number Formal exception ne)
 Jophon Pane . show Message Dialog (this, ne, * ERROR*,
   JOStion Pane. ERROR - MESSAGE);
  eatch (Asithmetic Exception a)
   Jophon Pane. show Message Dialog ( this, ne, * ERROR*,
   TOption Pane. ERROR_MESSAGE),
             1 9P D - d 0 7 " - D D D A 102 6
    bublic static void main (string args [])
                ( ) Spireland AS
      integerdivision; = new integerdivision ();
                           alagred the mai
    Selsize (new Dimension (400, 400));
    2. set JITLE (* INTEGER DIVISION OF JHO NUMBERS*);
     1. setvisible (tene),
      class window & dabter 1 extends. Windo w Adabter }
      public rold Window closing (Hindow Event. we)
        System.exit (0);
```