```
Paikage CIE;
import java. Util. scanner;
Public class internols ?
 Public double Rie Mockes [7;
 Public double Cerum $ =0.0;
  int i;
Public void laccept () ?
scanner in = new scanner (eystem.in);
 cienarks = new double (5);
 hystem. out. println (" Enter lie marks of 5
 courses out of 50").
 for ( is i=0; izs; i++) {.
   hystem. out painten ("Enter eie morks ["+(i+1)+"]
     cie Maeks [i] = in. nent Double();
Parkage som:
import java. vtil. *;
 Public class student ?.
    Public Atking UIN:
   Public Atking name;
   Public int Kem;
```

```
Public void accept() (.
 Leanner in = new stanners (system.in).
 Mystem out printer (" Enter word");
   USN = in north;
   name + in neat();
  Kem = in nent Int ();
Public void display (12.
 dystem. out. paintly 1 USN: "+ USN+ In name; "+name,
 "In sem: "+ sem).
 import CIE!
        SEE.
 import
 import java. Util. *;
 May Final Marks S.
    Public static void main to ( Maing args (7) 8.
    nt Fs;
     scannes in = Klammer (histem. in);
    hystem out printer (" Enter no. of students");
     int n = in. nentant();
     CIE. Atudent [] ( = new UE. Student [n];
     CIE. Internals () ci: hero CIE. Student (N)
       Enternals [] se = new Enternalms [n];
```

```
for (int j=0; j <n; j++) {.
(1 [i] = new CIE. Student ();
cs [j]. accept ();
ui[j]: new CIE. Internals ();
ci (i). lauept 1);
selij, new Enternals ();
seli). Eaccept ();
forlint j=0; j<n; j++)f.
  u(j). ouisplay ();
 hystem out - println ( b final marke of student
  "+ (iH));
 talinti=o; icr; i+t) ?.
 Fs = lint) (vili). Cienarks [i] + secs) seemarks[i]/
axtem. out println ("In course: "+ (i'+1) + "is: "+(Fs).
  Parkage SEE
 import java. util. scanner:
 Public class Enternals entends (1E. student ?
   Public double sermarks []
    tut i'
```

```
Public Void Eaccept() §.
  Stanner E: new scanner (dystemin).
  Secretaries = new double (5);
  audiot = new int(r):
  Aystem. out. printer ( - enter her makes of 5 course
  out of 100");
   for (1=0; 1cr; 1++) 1.
   Agetem. out printer l'Enter see marks ["4 litit "]"
   Reinlacks [i] = E. nent Doub (el);
) .
Program 7
 class Two benz T> 4.
      06$17
 Two Gen (T 01) f.
   061 = 01;
4.
   void showtyper () f.
   Rystem out painten l'Type of T is + Oblightdayl
  T get ob) () {.
   Return obv
```

```
class simple ?
  Public 1tatic void main (1thing ags 57) 8.
 Two ben Snreger > tgobj = new Two Gen < 9 nreger >(8)
  tgobj. whow Types ();
 int v = tgobj. getobil);
 Lystem. out-printh (" value: "+ v);
 Two ben < String > tg Obj 2 = new Twogen < Ktring>
                                  ( " This is Prairie);
  tg obje. showtypes ();
   1 turns 118 = tgobje. get obi();
   hystem out printen (a value: "+ sta);
 Two ben 2Float > Ob3 = new Two Gen 2Float>(23.23)
    Obs showtypes ();
   Float plo = 063. getobill;
  - Mystem out. printen (" value: " + 10);
```

```
Program - 8.
Class Father &.
 static void acceptName & (int input Age) throngs
                               Arithmetic Exception.
  try {
  1) (inputAge 20) 2.
  throw new {Arithmetic Exception & ("WRong age").
  eatch (Arithmetic Exception e) {.
   Lystem. out printle (" laught " +e);
Wall son entend father {
 Static void check's Page (int 5 - Age, int F_Age)
 throws Arithmetic Exception . ?
  try (.
  if ( S_Age > = f_Age)
  throw new Axithmetic Exception ("Son's age should
  be knaller than Jather's age 4);
  Rystem. out. println (" fon's age is "+ 5- Age + "famile
  age in " + F-Age);
 catch (Arithmetic Exception e) ?.
    System. out phintles ("Fraught" +e);
```

```
Public class Enception 8.
 Public static void main (string age []) {.
   father. accept Name F(0010):
    son. therks Fage (30,20);
Program -9.
            entends Thread f.
  cell ?.
    super (" We thread ");
  System out printer 1" The tholad is: " + this);
   start ();
Public void Run() {
  try ?
     Jos (inti=0; ics; i++) f.
      Rystem.out printer ("LSE");
        Thread. Meep (2000);
  Catch (Interrupted Exception e) {.
     Rystem.out. println ("Thread interrupted");
 hystem. out phintly (" (se thead eniting");
```

```
class main f.
 Public static void main (string aggs[]) ?
  new use ();
  tay 8.
   for (inti=0; izt; i+) {.
     Lystem out println ( " BMS college of Engineering ").
      Thread. Kleep (2000);
 catch (Intersupted Exception E) {.
     Kystem. out printer (" Main thread interrupted").
 (hystem.out.println ("main threadd emiting");
Program - 10.
 class car-queue f.
    string n;
    boolean Value set = false;
  synchronized string get () {.
       while (! value et) f.
              wait ();
        eatch (Interrupted Enception te) [3
  3.
```

```
Myrem. out. printles (4 Grot: " +n);
  valueset = false;
  notify ();
   getuen n;
 synchronized void put (96 (Atking n) 3.
}.
   while (valueset) ?
     wait
     with (Interrupted Exception 1) ?}.
   this n = n; valuelet = teme;
  Mystem. out printly (" Put: " +n);
    notify ();
dass las-Owner implements Runnable {.
    lar-quem 2;
    Car-owner (car-queur 9) E.
      fny. 2 = 9;
     new Thread (this, "Owner"). start();
  Public void run () {.
     while (true) ?.
       2. put (" Brakes") ;
}.
 Class lag-Mechanic implements Runnable 4.
     Car-queur 9;
     car Menanii (carquerez)
      this. 9 =9;
```

```
new Thread (this,
                   " Mcchami") · Ktart();
3
 public void Run () f.
     while (five) &
     1 · page 1;
class inter &.
 Public Static void main (xteing acqs[1) 1.
   cal-queur 9 = new car-queur ();
   new (as. owner (3);
   new (as-queur (3);
  Mytem out . printen (" Prey control +" to stor");
```