

I N D E X

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Sl. No.	Date	Title	Page No.	Teacher Sign / Remarks
(1)	8/11/24	Create a class Book that contains name, author name, price and no. of pages	4	10
(2)	8/11/24	Create a class Student that contains usni name and marks. Also calculate the percentage		10
(3)	22/11/24	Create a program to find a root the given quadratic equation		10
(4)	22/11/24	* Create an abstract class named Shape and print area		08
(5)	22/11/24	Create a class Bank that maintains two kind of acc. (Bank problem)		10
(6)	29/11/24	Create a package OOP which has two classes student and internals		10
(7)	19/12/24	Exception Handling Father son problem		10 100 250
(8)	19/12/24	Unread program display "BMS College of Engineering" once every ten sec and another displaying (CSE once every two seconds)		10

9.75
10

1. Class Example 1 (a)
 public static void main (String args[]) {
 System.out.println ("Hello"); }

3. Sailed as 'Example1.java' on
 Desktop

Output: Hello world

[cd desktop] [java Example1.java]] Commands to
 command prompt

2. Class Example 11 (b) Fibonacci Series
 public static void main (String args[]) {
 int p, n = 7, a = 0, b = 1, c; }

System.out.println (a);

System.out.println (b);

for (i = 0; i < n; i++) { }

System.out.println (a + b);

(= a + b);

Output: 0 1 1 2 3 5 8 13 21

3. Class Example 11 (c)
 public static void main (String args[]) { }

System.out.println ("Hello world");

Output: Hello world

~~Output: in desktop~~

javac Example11.java (compiling file)
 Example11

javac Example11.java (compiling file)
 Example11

Output: Hello world

(3) import java.io.*; ~~on~~ ~~import~~ ~~on~~

(Ergen 6. import. java. util. Scanner; 8. 3. 8)

class Prime {

Class Prime 2
Public static void main (String args [])

so I think is do we?

```
Scanner obj = new Scanner (System.in);
System.out.print ("Enter the number: ");
n = obj.nextInt();
```

$n = \text{obj}(\text{nextInt}())$

```
for (i=2, i<n; i++) {  
    if (n%2 == 0) cout << i;
```

3. $(c > 2 \text{ || } n = 0 \text{ || } n = 1) \cdot \text{?}$

6. Sphenocaul puncto (n. sp.)

Co 5 Waco - we mark 2

also ring - two methods

so p (not "is prime")

2. (cont'd) Answer the following questions:

3⁵ Selected as Example of jaw in ~~Diplobion~~

Output

cd c:\users\ger682\oneDrive\Desktop

javac Example: java

Chenopodiaceae: primrose

Express the number 510

is not yours

is not young

Opportunities for Improvement

Prime no

ni

on (String
args [7])

anner (System.in);
or the number:);

1);

69-
3
10
11

11

1 = 1);
+ " is not
prime");

ne");

jewel in

Drud Desktop

10

9 ~~introduction to wholes 0.3.9~~

~~(G) movie also a movie~~

~~(G) import of wa-utl); Scanner;~~

~~(G) class grocery is static~~

~~(G) double dal, pulse, sugar;~~

~~(G) grocery (double, pulse, sugar)~~

~~(G) double, pulse = 0.3.9~~

~~sugar = 0.3.9~~

~~(G) grocery 0.3.9~~

~~(G) grocery (double, pulse, sugar)~~

~~(G) double = 0.3.9~~

~~(G) pulse = 0.3.9~~

~~(G) sugar = 0.3.9~~

3 ~~(G) grocery 0.3.9~~

~~grocery (double, pulse, sugar)~~

~~dal = 0.3.9~~

~~pulse = 0.3.9~~

~~sugar = 0.3.9~~

~~(G) grocery 0.3.9~~

~~(G) grocery (double, pulse, sugar)~~

~~dal = 0.3.9~~

~~pulse = 0.3.9~~

~~sugar = 0.3.9~~

3 ~~(G) grocery 0.3.9~~

0) void total(G,)

~~total = S.0. P ("Total is " + " ") ;~~

~~S.0. P (dal * 100 + pulse * 80~~

~~+ sugar * 50) ;~~

3 ~~(G) total = 0.3.9~~

3 ~~(G) total = 0.3.9~~

3 ~~(G) total = 0.3.9~~

class main {

p.s.u.m. (String args[]) {

Scanner s = new Scanner (System.in);

int S.o.P ("Enter quantity of dal:");

double a = s.nextDouble();

S.o.P ("Enter quantity of pulse = ");

double b = s.nextDouble();

S.o.P ("Enter quantity of sugar = ");

double c = s.nextDouble();

grocery g1 = new grocery (a,b,c);

grocery g2 = new grocery (a);

grocery g3 = new grocery (c);

grocery g4 = new grocery (g1);

g1.total();

g2.total();

g3.total();

g4.total();

}
sum as main.java [main

class block should be enclosed
on cmd prompt.]

Output

Enter quantity of dal : 20

Enter quantity of pulse = 10

Enter quantity of sugar = 5

Total is : 4050

Total is : 5600

Total is : 255

Total is : 4050

- ② ~~MAP to simulate the working~~
Create and control a quadratic equation
③ ~~Program to solve quadratic~~
import java.util.Scanner;
import java.util.*;
class Quadratic {

```
public static void main(String args[]) {  
    Scanner s1 = new Scanner (System.in);  
    int a,b,c;  
    System.out.println("Enter the values of a,b,c");  
    a = s1.nextInt();  
    b = s1.nextInt();  
    c = s1.nextInt();  
    double d = b*b - 4*a*c;
```

if (a == 0) System.out.println("The equation is not quadratic");

else if (d > 0) {

System.out.println("The equation has 2 real and different solutions");

double r1 = (-b + Math.sqrt(d)) / (2*a);

double r2 = (-b - Math.sqrt(d)) / (2*a);

System.out.println("r1 = " + r1);

System.out.println("r2 = " + r2);

else if (d == 0) {

System.out.println("The equation has 1 real solution");

$$0 \cdot G = G \cdot P = 18$$

else if $(d = 0)$?

SOP ("the equation has real and equal solutions")

$$\text{double } g_1 = -b(c^2 + a^2)$$

$$\text{double } g_2 = -b(c^2 + a^2)$$

$$\text{SOP. C } (g_1 = g_2 = 0 \text{ or } g_1 \neq g_2)$$

↳

else if $(d < 0)$?

SOP ("the equation has unreal solutions")

$$\begin{array}{c} 3 \\ \text{if } (c^2 + a^2) \neq 0 \\ \text{double } g_1 = \frac{-b + \sqrt{d}}{2} \\ \text{double } g_2 = \frac{-b - \sqrt{d}}{2} \end{array}$$

$$\begin{array}{c} 3 \\ \text{if } (c^2 + a^2) = 0 \\ \text{double } g_1 = g_2 = 0 \end{array}$$

output \rightarrow $g_1 = 0$ \neq d

Enter the values of a, b, c resp:

$$2, 4, 5 \rightarrow d = 0 \text{ (real)}$$

the equation has unreal solutions

Enter the values of a, b, c resp. suspectly
1, -7, 10

the equation has two real and
different solutions

$$g_1 = 5.0$$

$$(a+b) \cdot (b) \cdot g_2 = -20.0 \rightarrow 0 \text{ (real)}$$

$$(a+b) \cdot (b) \cdot g_2 = -20.0 \rightarrow 0 \text{ (real)}$$

Enter the values of a, b, c resp. suspectly

$$1, -9, 4 \rightarrow g_1 = 2.0, g_2 = 2.0$$

the equation has real and equal
solutions

$$g_1 = g_2 = 2.0$$

O Program on Student

```
import java.util.Scanner;
```

```
class Scanner {
```

```
    String usn;
```

```
    String name;
```

```
    int marks[] = new int [6];
```

```
    void Details () {
```

```
        System.out.println ("Enter USN : ");
```

```
        usn = new Scanner (System.in).nextLine();
```

```
        System.out.println ("Enter Name : ");
```

```
        name = new Scanner (System.in).nextLine();
```

```
        System.out.println ("Enter Marks for 6 Subjects : ");
```

```
        for (int i = 0; i < 6; i++) {
```

```
            System.out.println ("Enter Subject " + (i + 1) + " Marks : ");
```

```
            marks[i] = new Scanner (System.in).nextInt();
```

```
        }
```

```
        double Percentage = 0.0;
```

```
        double TotalMarks = 0.0;
```

```
        int TotalMarks = 0;
```

```
        for (int i = 0; i < 6; i++) {
```

```
            TotalMarks += marks[i];
```

```
        }
```

```
        Percentage = (TotalMarks / 600) * 100;
```

```
        System.out.println ("Percentage : " + Percentage);
```

double p = total / 16;

return p;

name - John Smith 10/20/1990
Void display (S) 5 00000000000000000000000000000000

Sup ("In Student Details")

sup ("usn;" "tusn"))

```
sup ( "Name: " ) . name )  
    ^;
```

So P ("marks :") j

```
for (int i=0; i<1000000000; i++)  
    S1.D("subject") + (i+1) + S1."
```

Suppose "subject" & "object" +
 dearbef

(n. montanus) against with 2 main members

(((3) 120) radio))) 908

Supercorridor

Class Lab Student 2

$6(1 + 2x)(1 + 3x)(1 + 5x)(1 + 7x)$

public static void main (String args [])

Gruppen $\mathcal{S} = \text{newScanner}(\text{System}.\text{in})$

~~and the number of students~~ (SIP (center no. of Students)))

and $\mu = S_{\text{NEXT}}(t)$

~~if n = s.nextInt()~~

~~Students student = new Student [n] ;~~

~~for (int i=0; i<n; i++) {~~

Students [i] are student (j);

3 (7-9) ~~student details~~ (10))

Students (i) → Details (j)

Wetland - 123 - 1000

1. $18 \times 1000 = 18000$

for Student Student is

student, citizen

Student · display

5

Output

Enter the number of Students: 2

Enter the details for Student 1

Enter USN

IBM22CS100

Enter name

ABC

Enter marks for 6 subjects: 120

Subject 1: 90

Subject 2: 91

Subject 3: 92

Subject 4: 93

Subject 5: 94

Subject 6: 95

Enter the details for Student 2:

Enter USN

IBM22CS200

Enter name

abc

Enter marks for 6 subjects:

Subject 1: 80

Subject 2: 81

Subject 3: 82

Subject 4: 83

Subject 5: 84

Subject 6: 85

Student details

USN: IBM22CS100

Name: ABC

Subject 1: 90

2: 91

3: 92

1. 6:93 2. 6:94 3. 6:95

Brunnage: 93%.

Student Details:

USN: 1BMR21S200

Name: abc

Marks: 1P 6.67%

Subject 1: 80P 8.67%

2: 81P 8.67%

3: 82P 8.67%

4: 83P 8.67%

5: 84P

6: 85P

Brunnage: 82.5%.

O

String value of int num

Import java.util.Scanner

Class Books {

String name;

String Author;

int price;

int numPages;

Books (String name, String author, int price, int numPages) {

IP: 6

SP: 8

this.Name = name;
this.Author = author;
this.Price = price;
this.numPages = numPages;

3

• Name and

public String toString() {

(if name and author and price
then return name + author + price)

(if numPages then return numPages)

(else return null)

name = "Book name: " + this.Name

(if author is not null then add " and " + "author" + "n")

author = "Author name: " +

(if author is not null then add author + "n")

(if numPages is not null then add "Number of Pages: " +

(if numPages is not null then add numPages + "n")

(if numPages is not null then add numPages + "n")

price = "Price: " + this.Price + "n")

(if numPages is not null then add numPages + "n")

return name + author + numPages

(if name and author and price) else + price;

if (name and author and price) else + price;

if (name and author and price) else + price;

(if name and author and price) else + price;

(if name and author and price) else + price;

(if name and author and price) else + price;

(if name and author and price) else + price;

(if name and author and price) else + price;

Result of execution: author and = 19.2 d

(Author and price)

Q

Author = string. edit
& Author = author. edit
Name = name. edit
Agreement = agreement. edit

class Main {

 public static void main (String args[]){
 Scanner s = new Scanner (System.in);
 int n;}

String auth + String name = auth
+ name + String Author = Author
+ String price = price

int n = nextInt ("Enter the number of books");
for (int i = 0; i < n; i++) {
 String name = s.next();
 String Author = s.next();
 String price = s.next();
 int numPages = s.nextInt();
 System.out.println ("Book " + i + " = " + name + " " + Author + " " + price + " " + numPages);
}

for (int i = 0; i < n; i++) {

 String name = s.next();
 String Author = s.next();
 String price = s.next();

 int numPages = s.nextInt();
 System.out.println ("Book " + i + " = " + name + " " + Author + " " + price + " " + numPages);
}

String name = s.next();
String Author = s.next();
String price = s.next();

int numPages = s.nextInt();
System.out.println ("Book " + i + " = " + name + " " + Author + " " + price + " " + numPages);
}

String name = s.next();
String Author = s.next();
String price = s.next();
int numPages = s.nextInt();
System.out.println ("Book " + i + " = " + name + " " + Author + " " + price + " " + numPages);
}

String name = s.next();
String Author = s.next();
String price = s.next();
int numPages = s.nextInt();
System.out.println ("Book " + i + " = " + name + " " + Author + " " + price + " " + numPages);
}

for (int i = 0; i < n; i++) {
 SOPC("Books", i + 1) + " " +
 SOPC(b[i], 10);
}

3

3

Terminal. Data entry during

OP

Enter the number of books: 2
i (0) books for library

Enter name of book: 6

Enter name of author: g

Enter price: 3

Enter numPages: 5

Scanning books for library

Enter name of book: 9

Enter name of author: h

Enter price: 7

Enter price: 7

Enter numPages: 8

Scanning books for library

Book 1

Book 1's name will now be

Author name: g

Number of pages: 5

Price (in rupees): 6000000

(Scanning books for library = 0 to 100)

Book 2's name will now be

Book 2's name: g

Author name: h

Number of pages: 8

Price: 7

9 Implement Java program to create a superclass called Figure that stores dimensions of a two-dimensional object.

Area is 0

import java.util.Scanner

abstract class Shape {

protected int dimension1;

protected int dimension2;

public Shape (int dimension1, int dimension2) {

this.dimension1 = dimension1;

this.dimension2 = dimension2;

public abstract void printArea();

class Rectangle extends Shape {

public Rectangle (int length, int width) {

super (length, width);

public void printArea() {

int area = dimension1 * dimension2;

System.out.println ("Area of Rectangle" + area);

to create
that
2-dimension

class Triangle extends Shape {
 public Triangle (int base, int height) {
 super (base, height);
 }
 public void printArea () {
 double area = 0.5 * dimension1 *
 dimension2;
 System.out.println ("Area of triangle" +
 area);
 }
}

Draw circle extends shape {
 public Circle (int radius) {
 super (radius);
 }
}

Super (radius); // only one
dimension (radius)
needed for a circle

public void printArea () {
 double area = Math.PI * dimension1 *
 dimension2;

System.out.println ("Area of circle" +
 area);
}

(3) method prints output

method prints output

6. Extend class

public class Main {
public static void main (String args) {

 Rectangle rectangle = new Rectangle
 rectangle • printArea();
 rectangle = new Rectangle

 triangle triangle = new Triangle (3, 6);

 triangle • printArea();

 circle circle = new Circle (2);

 circle • printArea();

3

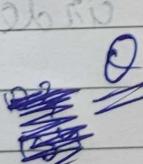
Output

3.0000000000000004

Area of Rectangle : 20

Area of Triangle : 9

Area of circle : 12.566370614359173



Develop a Java program to
Create class BankR
Check for minimum balance ~~balance~~ ^{balance}
penalty if necessary and update ~~balance~~

Abstract class BankAccount {
private String accountNumber;
private double balance;

public BankAccount (String accountNumber
double balance) {

1args

if (args.length > 0) this.accountNumber = args[0];

if (args.length > 1) this.balance = Double.parseDouble(args[1]);

else this.balance = 0.0;

public String getAccountNumber() {

return accountNumber;

public double getBalance() {

return balance;

} // Balance = 0.0

public void withdraw(double balance) {

this.balance = this.balance - balance;

else System.out.println("Insufficient funds");

else System.out.println("Withdrawal successful");

public abstract void deposit(double amount);

else System.out.println("Insufficient funds");

public abstract void withdraw(double amount);

}

class SavingsAccount extends BankAccount {

public SavingsAccount(String accountNumber)

double balance; {

super(accountNumber, balance);

}

public void deposit (double amount) {
 balance += amount;

setBalance (getBalance () + amount);
}

System.out.println ("Deposit of \$" +
 amount + " Successful - current balance
 : \$" + getBalance());
}

public void withdraw (double amount) {
 if (getBalance () >= amount) {
 setBalance (getBalance () - amount);
 }
}

if (getBalance () >= amount) {
 setBalance (getBalance () - amount);
}

System.out.println ("Withdrawal of \$" +
 amount + " Successful - current
 balance : \$" + getBalance());
}

System.out.println ("Withdrawal of \$" +
 amount + " Failed - insufficient funds")
;

if (amount >= balance) {
 System.out.println ("Insufficient funds")
 ;
}

System.out.println ("Withdrawal failed.")
;

class BankAccount {
 double balance;
 String accountNumber;
}

public BankAccount (String accountNumber, double balance) {
 this.accountNumber = accountNumber;
 this.balance = balance;
}

Super (account number, balance) ;

7. What is the main idea of the following text?

Public void deposit (down amount) $\frac{1}{2}$
(most funds, less than 1000)

SetBalance (getBalance () + count);
100,000L = lady

System.out.println ("Deposit of \$" + amount
+ " is successful. Current balance is \$" +
getBalance());

patient withdraws (double count)

if (getBalance) >= amount) {

SchBalance('getBalance('account'))'

System.out.println (" withdrawal of \$" +
+ amount + " Successful " + current balance:
\$ " + getBalance());

~~Abse S~~

~~Syphem. out-punkts (s. Insufficient funds
Withdrawal failed "')~~

at 105th Street - No. 2000?

3

(-block) children - how? you?

Sept

public class Main { }

public static void main (String [] args) { }

{ trans. details. trans. no. 1 }
double bal, amt; }

{ trans. + (trans. no. 1) }
bal = 1000.00; }

trans. + (trans. no. 1) }
bal = 1000.00; }

Savings Account. SavingsAccount
new (SavingsAccount ("SA001",
bal)); }

{ trans. + (trans. no. 1) }
System.out.println ("Savings A/c: Total
Balance : \$" + bal); }

{ trans. = (trans. no. 1) }
amt = 500.00; }

{ trans. = (trans. no. 1) }
Savings Account. deposit (amt); }

{ trans. = (trans. no. 1) }
double balWant = 250.00; trans. =

{ (trans. + ("\$")) }

Savings Account. withdraw (want);

above. withdraw (want) = 160.00.00; }

System.out.println ("I try to
withdraw : \$" + want); }

Savings Account. withdraw (want);

System.out.println();

bal = 5000.00;

Current Account

deposit = new CurrentAccount

("Choi", bal);

5.000 P. f. Deposit

System.out.println("current A/c:
Initial balance: \$" + bal);

deposit = 2500.00;

Current Account.deposit(1000.0);

Want = 1250.00;

Current Account: withdraw(1250.0);

Want = 600.00;

6.000 P. f. Deposit

System.out.println("in try to

withdraw: \$" + want);

SavingsAccount.withdraw(want);

3

Output

Savings A/C Initial Balance:

\$ 1000.0

Deposit of \$ 500.0 to savings account

Successful, Current balance:

\$ 1300.0

Withdrawal of \$ 250.0

Successful, Current balance:

\$ 1050.0

Try to withdraw: \$ 1600.0

Insufficient funds.

Withdrawal failed

Current A/C Initial Balance:

\$ 5000.0

Deposit of \$ 1000.0 to current

Successful, Current Balance:

\$ 6000.0

Withdrawal of \$ 3000.0

Successful, Current Balance:

\$ 3000.0

Try to withdraw: \$ 6000.0

Insufficient funds.

Withdrawal failed

20
22/1/24

Lab

O Package problem

Student.java

Package CIE;

public class Student {

public + Strong USP

public Strong name;

public int sem;

public Student (String id, String name, int sem) {

(ANS) $\text{this} : \text{USA} = \text{USA} ;$ using

define this: `name = name;`

this sem = semj

i (m2, 2018, 01, 15112)

diminishing, eighth

Internals: give

Package (1F2)

public class Interventions extends Student

~~Public int[er] internal markets~~

```
public Internals (String usn, String name,  
int sem; int[] internalNumbers)  
Super (usn, name, sem);
```

this. internalmarks
3 3
3 3

External .java

package SFE;
import CIF.Student;

public class External extends
Student {

public int[] externalmarks;

public External (String usn)

String name

int sem > int[] externalmarks

Super (usn, name, sem);

this. externalmarks

Externalmarks

3

3

Main .java

import java.util.Scanner;

import CIF. Internals;

import SFE. External;

External student; Scanner in;

if (true) {

public class Main {

public static void main (String args) {

Scanner scanner = new Scanner (System.in);

System.out.println ("Enter no. of Students");

int n = scanner.nextInt();

Scanner.nextLine();

Internals[] internalsData = new Internals[n];

Internals[] internalsData = new Internals[n];

for (int i=0; i<n; i++) {

System.out.println ("Enter details for

Student " + (i+1) + ":");

System.out.print ("Enter USN");

String USN = scanner.nextLine();

System.out.print ("Enter name");

String name = scanner.nextLine();

System.out.print ("Enter Semester");

int sem = scanner.nextInt();

scanner.nextLine();

System.out.println("Enter Internal
marks for 5 subjects:");

int[] internalMarks = new int[5];

for (int j = 0; j < 5; j++) {

System.out.print("Subject ");

+ (j + 1) + ":");

internalMarks[j] = scanner.nextInt();

System.out.println("Enter External
marks for 5 subjects:");

int[] externalMarks = new int[5];

for (int j = 0; j < 5; j++) {

System.out.print("Subject ");

+ (j + 1) + ":");

externalMarks[j] = scanner.nextInt();

internalData[i] = new Internal

(USN, name, sem)

internalMarks);

externalData[i] = new External

(USN, name, sem)

externalMarks);

Date / /
 Page / /
 b2 (int i = 0; i < n; i++) {
 System.out.println("Student " + (i + 1) + ": ");
 System.out.println("Internal marks: ");
 + arrayToString(internal)
 Data[i].internalMarks));
 System.out.println("External marks: ");
 + arrayToString(internal)
 Data[i].externalMarks));
 System.out.println("Total marks (IE + SEE): ");
 + calculateTotalMarks
 (internalData[i].internalMarks)
 externalData[i].externalMarks));

 private static int calculateTotalMarks
 (int [] internalMarks, int [] externalMarks)
 {
 int total = 0;
 for (int i = 0; i < internalMarks.length;
 i++) {
 total += internalMarks[i] + external
 marks[i];
 }
 return total;
 }

~~private static String arrayToString
 (int [] array) {
 StringBuilder sb = new StringBuilder();
 sb.append("[");
 for (int i = 0; i < array.length; i++) {
 sb.append(array[i]);
 }~~

internal Student (internal) 0 external

internal marks: [45, 49, 43, 44, 48]

external marks: [87, 89, 94, 92, 95]

all total marks (CENSERED): 696

obtained marks "02" failing

marks 02. Only 2nd 017

~~2011~~ 2011 0 failing, marks

marks 02 2nd 017 marks failing

internal marks 02 failing marks

02 02 02 02 failing marks

internal marks 02 failing marks

internal marks

internal marks

internal marks

internal marks 02 failing marks

internal marks

internal marks

internal marks 02 failing marks

internal marks

Q Write a program that demonstrates handling exceptions in inheritance. Create a base class called "Father" and a derived class called "Son" which extends the base class. In Father class, implement a constructor which takes the age and throws the exception WrongAge() when the input age < 0. In Son class, implement a constructor that takes both father and son's age and throws an exception if son's age is \geq father's age.

class WrongAgeException extends Exception
public WrongAgeException (String message) {

} Super message ;

class Father {
int age ;

public Father (int age) throws
WrongAgeException {
if (age < 0) {

} throw new WrongAgeException ("Age cannot
be negative");

Date _____
Page _____

demonstrates
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true
actions
and
wrong (1)
n
character
1 son's
inception
n's age

if what "this" adj. is" adjing. the adj.

(S. andrewsii) (S. andrewsii) (S. andrewsii)

and "blue") along the north

class Son: friends Father ?

mt sonAge;

↳ ~~redundant~~ (redundant) shows
public S_0 (e.g. E_0)

public Son(int FatherAge, int sonAge)
throws WrongAgeException {

Supr (father Age)

if (sonAge >= fatherAge) {

throws new WrongAgeException

("Son's age cannot be greater

changed to the 3rd ³ birth when a man's wife is older than or equal to father's age".

(6) We (this, son Age) = Son, Age: j

to 0 April not started

May 2011: ~~Worrell's report, consider the~~
~~new approach as follows:~~

public class InheritanceExceptionHandling {

public static void Main(string[] args) {

PNF (atherAge = Integer.ParseIntArgs[0])

int SanAge = Integer.parseInt(args[1]);

push $\lambda (a) \text{Son } \text{Son} \equiv \text{new } \text{Son} (\text{fatherAge}, \text{sonAge})$;
System.out.println ("Father's age : " + fatherAge);

Sysem.out.println ("Son's age: " + sonAge);

3 catch (NumberFormatException e) {

Sysem.out.println ("Please enter
valid ages as
integers");

3 catch (WrongAgeException e) {

System.out.println ("Error: " +
e.getMessage());

3 (System.out.println ("Age: " + age));

3 (3 return);

51P (no exception handling event)

Exception are also Thread "main"

java.lang.ArrayIndexOutOfBoundsException : Index 0 out of bounds

bounds for length 0 at

Instance Exception Handling - main

Instance Exception Handling - java : 33

Exception handling in threads

0 Create a program to creates

two threads , one thread displaying

"Ranis College of Engineering" one

every two seconds and another

displaying "CSE" one every two

seconds

class displayThread extends Thread {

 private final String message;
 private final int interval;

 public displayThread (String message, int interval) {

 this.message = message;
 this.interval = interval;

}

 @Override

 public void run() {

 try {

 while (true) {

 System.out.println (message);

 Thread.sleep (interval * 1000);

 } catch (InterruptedException e) {

 e.printStackTrace();

 }

 }

 }

 }

public class MultiThreads Demo {

public static void main(String[] args) {

displayThread = new

displayThread("Thread 1", "BMS college of engineering")

displayThread = new

displayThread("Thread 2", "CSE", 2)

Thread1.start();

Thread2.start();

Thread2.start();

Thread2.start();

Thread2.start();

6/1 (10:00) view

implementation using two methods

BMS college of engineering

CSE

CSE

CSE

CSE

BMS college of engineering

CSE

CSE

CSE

CSE

CSE

BMS college of Engineering

10/2/2024

Exception handling

import java.util.*;

class WrongAge extends Exception
public WrongAge() {
super("invalid age, provided")
}

class Father {

int age;

public Father(int age) throws

WrongAge {
this.age = age;

if (age < 0) throw new WrongAge();

throws new WrongAge();

it's illegal to create a constructor

System.out.println("the age of
father is: " + age);

(3) first a = parent;

3rd who's mother - is - me;

3rd " no2

class Son extends Father {

int age;

public Son(int age, int usage) throws
WrongAge {

(parent) parent and son

(parent) son and me

this.age = age;

3
P | (sage >= page)
| thrown - miss, wrong page ())

3
Enthw. used to 20 April only

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S (20 April, 1969)

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Enthw. Sphem - out - punkn ("the age of
son is not sage")

3

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P (20 April 1969)

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son is not sage")

catch (wrong age e) 2

Sytem.out.println ("exception caught");

3

3

3

0CP

Enter the age of father

0

Enter the age of son

2

exception caught

Enter the age of father

4

Enter the age of son

7

exception caught

Enter the age of father

30

Enter the age of son

2

~~the age of father is : 30~~

~~the age of father is : 30~~

~~the age of son is : 2~~

Don
19/12/04

create Table 3 button and textfield

import java.awt.*
import java.awt.event.*

public class auth extends
window implements

AuthFrame extends window

author extends

frame extends

f = new frame();

f.add(new auth());

Label l = new Label("Employee

id")

Button b = new Button("Submit")

Textfield

textfield tf = new Textfield();

l.setBounds(70, 50, 30)

b.setBounds(20, 100, 80, 30)

b.setBounds(100, 100, 80, 30)

b.setBounds(100, 100, 80, 30)

b.setBounds(100, 100, 80, 30)

b.setBounds(100, 100, 80, 30)

textfields:

- an `Image` f. `setSize(400, 300)`;
- f. `setTitle("Emp. Info")`;
- f. `setLayout(null)`
- f. `setResizable(true)`;

`public void windowClosing(WindowEvent e)`

`System.exit(0)`

3

`public static void main(String args[])`

`JFrame authen = new authen();`

3

OCOP

Employee Info

Employee Id:

create a button and add an action listener for mouse click

import java.awt.*

import java.awt.event.*;

public class EventHandling extends WindowAdapter implements ActionListener

Frame f
TextField tf;

EventHandling()

((Window) f = new Frame())

tf = add WindowListener(this)

tf. SetBounds(60, 50, 120, 20)

Button b = new Button("click me")

b. SetBounds(100, 120, 80, 30)

b. add ActionListener(this);

b. add(b);

b. add(tf);

b. setSize(300, 300);

b. setLayout(null);

6. setVisible (true);

3

public void actionPerformed
(ActionEvent e);

3

7. setEvent ("welcome");

public void actionPerformed
(ActionEvent e);

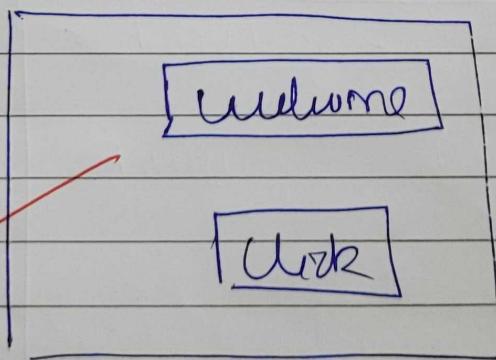
3

public static void main
(String args[]);

new EventHandling();

3 3

OR



Don
2/3/21