Exception handling

1. **import** java.io.\*;

**public** **class** exp {

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

**int** a=5;

**int** b=0;

**try** {

System.***out***.println(a/b);

}

**catch** (ArithmeticException e) {

System.***out***.println("divide by zero error");

}

}

}

Output:

divide by zero error

1. 2. **import** java.util.Scanner;

**public** **class** Division

{

**public** **static** **void** main(String[] args) **throws** UnsupportedOperationException

{

**double** div;

**try** (Scanner sc = **new** Scanner(System.***in***)) {

System.***out***.println("Enter First Number: ");

**double** num1 = sc.nextDouble();

System.***out***.println("Enter Second Number: ");

**double** num2 = sc.nextDouble();

**try**

{

div = num1/num2;

System.***out***.println("The division of two numbers is: "+div);

}

**catch** (ArithmeticException e)

{

System.***out***.println("Please do not enter zero in the second number");

**throw** **new** UnsupportedOperationException("Unsupported Operation!");

}

}

}

}

3. **import** java.util.Scanner;

**class** InsufficientBalanceException **extends** RuntimeException{}

**public** **class** SavingAccount {

Scanner sc=**new** Scanner(System.***in***);

**public** **void** withdraw(**double** a)

{

System.***out***.println("Enter ur Id");

**long** id=sc.nextLong();

System.***out***.println("Enter your balance");

**double** b=sc.nextDouble();

**try**

{

**if**(a<=b) {

b=b-a;

System.***out***.println("balance:"+b);

}

**else** {

**throw** **new** InsufficientBalanceException();

}

}

**catch**(InsufficientBalanceException ex) {

ex.printStackTrace();

}

}

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

SavingAccount s=**new** SavingAccount();

s.withdraw(1222);

}

}

Output:

Enter ur Id

8786

Enter your balance

989

InsufficientBalanceException

at SavingAccount.withdraw(SavingAccount.java:19)

at SavingAccount.main(SavingAccount.java:30)

b. **import** java.util.Scanner;

**class** AccountIllegalBankTransactionException **extends** RuntimeException{}

**public** **class** Account {

Scanner sc=**new** Scanner(System.***in***);

**public** **void** withdraw(**double** a)

{

System.***out***.println("Enter ur Id");

**long** id=sc.nextLong();

System.***out***.println("Enter your balance");

**double** b=sc.nextDouble();

**try**

{

**if**(a>0) {

System.***out***.println("balance:"+b);

}

**else** {

**throw** **new** AccountIllegalBankTransactionException();

}

}

**catch**(AccountIllegalBankTransactionException ex) {

ex.printStackTrace();

}

}

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

Account s=**new** Account();

s.withdraw(-10201);

}

}

Output:

Enter ur Id

867

Enter your balance

887

AccountIllegalBankTransactionException

at Account.withdraw(Account.java:20)

at Account.main(Account.java:31)