**ASSIGNMENT ON EXCEPTION HANDLING** :

1. Arithmetic Exception :

**import** java.util.Scanner;

**public** **class** Arithmetic\_Exception {

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

{

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

System.***out***.println("Enter the first number: ");

**int** a=sc.nextInt();

System.***out***.println("Enter the second number : ");

**int** b=sc.nextInt();

**try** {

**int** c=a/b;

System.***out***.println(c);

}

**catch**(ArithmeticException e)

{

System.***out***.println(e);

}

}

}

**Output:**

Enter the first number:

10

Enter the second number :

0

java.lang.ArithmeticException: / by zero

**2.Unsupported Operation Exception:**

**import** java.util.Scanner;

**public** **class** UnsupportedExeption {

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

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

System.***out***.println("Enter the first number: ");

**int** a=sc.nextInt();

System.***out***.println("Enter the second number : ");

**int** b=sc.nextInt();

**try** {

**int** c=a/b;

System.***out***.println(c);

}

**catch**(UnsupportedOperationException e)

{

System.***out***.println("Exception Handled " +e);

}

}

}

**Output:**

Enter the first number:

9

Enter the second number :

0

Exception in thread "main" java.lang.ArithmeticException: / by zero

at Exception.UnsupportedExeption.main(UnsupportedExeption.java:14)

**3.**

**a. InsufficientBalance Exception:**

**class** Exception\_demo **extends** RuntimeException

{

}

**public** **class** InsufficientBalance\_Exception

{

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

**void** with\_draw(**double** x)

{

System.***out***.println("Enter your cust\_id: ");

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

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

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

**try** {

**if**(x<=y)

{

y=y-x;

System.***out***.println("Your Balance = " +y);

}

**else** {

**throw** **new** Exception\_demo();

}

}

**catch**(Exception\_demo e)

{

System.***out***.println(e);

}

}

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

InsufficientBalance\_Exception i=**new** InsufficientBalance\_Exception();

i.with\_draw(2000);

}

}

**Output:**

Enter your cust\_id:

12345678

Enter your balance :

0

Exception.Exception\_demo

**b. IllegalBankTransectionException :**

**import** java.util.Scanner;

**class** IllegalBankTransectionException **extends** RuntimeException

{

}

**public** **class** Account

{

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

**void** with\_draw(**double** x)

{

System.***out***.println("Enter your cust\_id: ");

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

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

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

**try** {

**if**(x>y)

{

System.***out***.println("Your Balance = " +y);

}

**else** {

**throw** **new** IllegalBankTransectionException();

}

}

**catch**(IllegalBankTransectionException e)

{

System.***out***.println(e);

}

}

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

Account ac=**new** Account();

ac.with\_draw(-2000);

}

}

**Output:**

Enter your cust\_id:

123444

Enter your balance :

500

Exception.IllegalBankTransectionException