1.)Run Time Exception or unchecked exception- ArithmeticException,

ClassCastException, ArrayStoreException, NullPointerException, IndexOutOfBoundsException, TypeNotPresentException and etc.

Compile Time Exception or Checked Exception – IOException, FileNotFoundException

2.)

**package** assignment11;

**public** **class** InvalidNameException **extends** Exception {

**int** errorcode;

**public** InvalidNameException(**int** code, String message) {

**super**(message);

**this**.errorcode = code;

}

**public** **int** getErrorCode() {

**return** **this**.errorcode;

}

}

**package** assignment11;

**public** **class** ValidationName {

**public** **void** validation(String name) **throws** InvalidNameException{

**if**(name=="test") {

InvalidNameException naex = **new** InvalidNameException(108,"Name is not valid");

**throw** naex;

}

}

}

**package** assignment11;

**public** **class** Driver {

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

ValidationName vn = **new** ValidationName();

**try**{

vn.validation("test");

}**catch**(InvalidNameException ex){

System.***out***.println("Error code is "+ ex.getErrorCode() + " , "+ex.getMessage());

}

}

}

o/p - Error code is 108 , Name is not valid

3.)

Checked exception is compile time exception which I have done in 2 answer with InavlidNameException.

4.)

Exception happened

Completed

Program completed