Ans1 to 3 is in this link:

https://hashnode.com/preview/65d89b1569d0451bbbdade89

Ans4

package javaTAsk11Answers;

import java.util.Scanner;

public class Ans\_4 {

public static void main(String[] args) {

try {

int a, b, c;

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

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

a = obj.nextInt();

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

b = obj.nextInt();

c = a / b;

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

} catch (ArithmeticException e) {

System.***out***.println("Catch the exception " + e.getMessage());

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

}

}

}

Output

Enter first number is :

10

Enter second number is :

0

Catch the exception / by zero

java.lang.ArithmeticException: / by zero

Ans5

package javaTAsk11Answers;

public class ArrayIndexOutOfBoundsAns5\_1 {

public static void main(String[] args) {

int[] i = {1,2,3,4,5};

try {

System.***out***.println(i[10]);

}catch(ArrayIndexOutOfBoundsException e) {

System.***out***.println("Handled exception");

}

}

}

Output

Handled exception

package javaTAsk11Answers;

public class StringIndexOutOfBoundsAns5\_2 {

public static void main(String[] args) {

try {

String name = "Kavin , Vikram";

System.***out***.println(name.charAt(20));

} catch (StringIndexOutOfBoundsException e) {

System.***out***.println("Exception handled");

}

}

}

Output

Exception handlel

Ans6

package javaTAsk11Answers;

import java.util.Scanner;

public class Ans\_6 {

final static String ***EXPECTED\_PASSWORD*** = "pass@123";

public static void main(String[] args) {

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

System.***out***.println("Enter user name :");

String username= obj.nextLine();

System.***out***.println("Enter user password :");

String userpassword =obj.nextLine();

try {

if (*validatePassword*(userpassword)) {

System.***out***.println("Login successful!");

} else {

throw new IncorrectPasswordException();

}

} catch (IncorrectPasswordException e) {

System.***out***.println("Error: Incorrect password entered.");

}

}

private static boolean validatePassword(String password) {

return password.equals(***EXPECTED\_PASSWORD***);

}

static class IncorrectPasswordException extends Exception {

// Custom exception for incorrect password

}

}

Output

Enter user name :

123

Enter user password :

12

Error: Incorrect password entered.

Ans7

package javaTAsk11Answers;

import java.util.Scanner;

public class Ans\_7 {

public static void main(String[] args) {

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

System.***out***.println("Enter valid age :");

int age = obj.nextInt();

try {

*validateAge*(age);

System.***out***.println("Age is valid!");

} catch (InvalidAgeException e) {

System.***out***.println("Error: Entered age is invalid " + e);

}

}

private static void validateAge(int age) throws InvalidAgeException {

if (age < 18) {

throw new InvalidAgeException("Age must be 18 or above.");

}

}

static class InvalidAgeException extends Exception {

public InvalidAgeException(String msg) {

}

}

}

Output

Enter valid age :

10

Error: Entered age is invalid javaTAsk11Answers.Ans\_7$InvalidAgeException

Ans8

package javaTAsk11Answers;

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Ans\_8 {

public static void main(String[] args) {

try {

File file = new File("example.txt");

Scanner scanner = new Scanner(file);

while (scanner.hasNextLine()) {

String data = scanner.nextLine();

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

}

scanner.close();

} catch (FileNotFoundException e) {

System.***out***.println("File not found. Please make sure the file exists.");

}

}

}

Output

File not found. Please make sure the file exists.