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package experimentno6;

import java.util.*;

class Exception1{
    void ArithmeticException(){
        Scanner sc= new Scanner(System.in);

        boolean valid;

        valid = false;

        while (!valid){

            try{

                System.out.println("Enter two no : ");

                int num1 = sc.nextInt();

                int num2 = sc.nextInt();

                double c=num1/num2;

                System.out.println("Division is"+c);

                valid = true;

            }

            catch (Exception e)

            {

                System.out.println("We can't divide by ZERO ! \n\t Enter valid number");

                break;

            }

        }

    }

    void ArrayOutOfBond(int [] arr){

        Scanner sc= new Scanner(System.in);

        boolean valid;

        valid = false;

        while (!valid){

            try{

                System.out.println("Enter index of no which you want print");

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        int i=sc.nextInt();

        System.out.println(arr [i]+"present");

        valid=true;
    }
    catch (Exception e){

        System.out.println("Enter valid Index no ");

        break;
    }
}

void NumberFormat(){
    Scanner sc= new Scanner(System.in);

    boolean valid;

    String a,b;

    valid = false;

    while (!valid){

        try{

            System.out.println("Enter 1st no : ");

            a = sc.next();

            System.out.println("Enter 2nd no : ");

            b= sc.next();

            int c=Integer.parseInt(a);

            int d=Integer.parseInt(b);

            System.out.println("Your Entered Integers Are :"+c+"\t"+d);

            valid = true;

        }

        catch (Exception e){

            System.out.println("Enter Valid Integer !");

            break;

        }
    }
}

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    }
}
}

public class Experimentno6{

    public static void main(String [] args){

        Exception1 e = new Exception1();

        Scanner sc = new Scanner(System.in);

        int n ;

        do{

            System.out.println("\nEnter Your Choice"

                +"\n\t\t1]Arithmetic"

                +"\t2]Array Out Of Bond"

                +"\n\t3]Number Formate"

                +"\t\t4]Exit");

            n=sc.nextInt();

            switch(n){

                case 1:

                    e.ArithmeticException();

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

                    break;

                case 2:

                    int [] arr = {1,4,16,64,256,1024};

                    e.ArrayOutOfBond(arr);

                    System.out.print("=====
                    =====");

                    break;

                case 3:

                    e.NumberFormat();

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

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        break;
    case 4:
        n =0;
        System.out.println("=====");
        break;
    default :
        System.out.println("INVALID INPUT!");

    }

    }while (n!=0);

    }

}
```

