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## Assignment 12

Ques 1

imposit java util. Scanner;

public class Ainthonetic Exception {

public static void main(storing [] ongs) {

int a, b, c;

Sconner sc = new Scanner (System. in);

System. out. perintles ("Enter Fieret Num: ");

q = 8c. next/nt();

System. out. pointly ("Enter Second Num: ");

b = 8c. next/n+ ();

try {

c= a/b;

```
System. Out. perintly ("Result: "+c);
cotch (Aighthmetic Exception e)
    System. outprintln ("Ennon: "+e);
               1 space of the Hallman control
 System.out.pountly ("End");
```

```
Run: AirthmeticException ×

| C:\Program Files\Amazon Corretto\jdk17.0.2_8\bin\j
| Enter first number : 10
| Enter second number : 0
| Error : java.lang.ArithmeticException: / by zero
| End of Program
| Process finished with exit code 0
| Git | Run | TODO | Problems | Profiler | Terminal | Build
```

Jues 2

public class SubClass &

public static void main (Storing [] angs) &

try &

int n = 10/0;

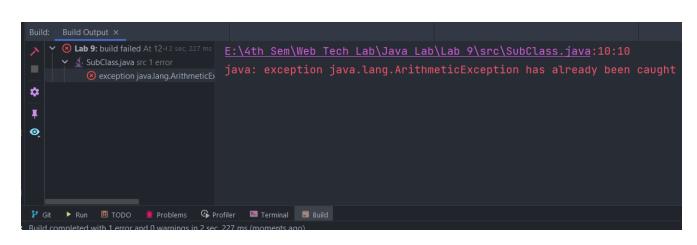
cotch (Exception e) {

8 yelom.out.pointln(e);

catch (Airthmetic Exception e) {
System.out.pountln(e);

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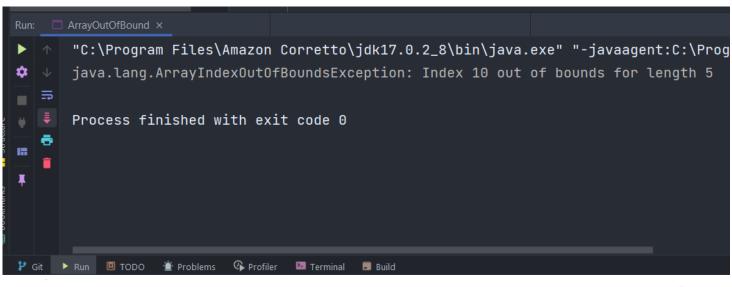
Jues 3

```
public class NullPointer Exception &
   public static void main (String [] orgs) {
       Storing Ston = null;
      tory &
     int x = str.length();
    cotch (NullPointer Exception e) {
       System.out. pount (e);
                     Jan Jan Jan Jan
```

3

Jues H

```
Public does Agoray Out of Bound &
    public static void main (Storing [] angs) {
       int [] a = new ind[5];
        tory &
            int n = a[10];
       catch (Agrossylndex Out Of Bounds Exception e) {
           System. out. pointly (e);
             enter when it must you by
```



Jus 5

doss Negotive Number Exception extends Exception & public Negotive Number Exception () & super();

3

public Storing to Storing () En retween "Negotive Number Found";

3

3

public dass Negative Number Demo {
public static void paracess Input (int x)
throws Negative Number Exception {

if (n < 0) {

throw new Negative Number Exception ();

3

public static void main (Storing[] args) {
Scanner 8c = new Scanner(8ystem.in);

```
int n = 8c. nextlut();

tary {

prioceseInput(x);

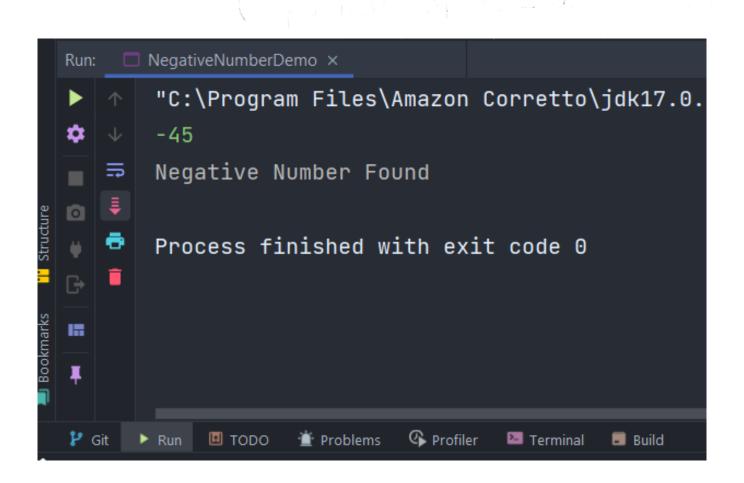
}

catch (Negative Number Exception e) {

8yetom.out.pointln(e);

$

sc.close();
```



```
Jues 6
   imposit java. util. *;
        Hous- Exception extende Exception
      Howes_Exaption (Staing 8)
           Super (8);
        Minutes_Exception (Storing &)
       Minutes-Exception (8tring 8)
   3
 class Seconds_ Exception extends Exception
   E
          Seconde Exception (Storing s)
```

```
class Time &
     int by, min, sec;
  Time (int hore, int min, int sec)
       this. hors = hors;
        this. min = min;
        thip. sec = 800;
void display() throws Hows Exception, Minutes Exception,
                Seconds - Exception
      if (my < 0 11 hrs > 24)
         throw new Hours Exception ("Hour value is greater than 201 on <0");
      else &
      System. out. point Ly(hus +"ha");
     if (min < 8 11 min > 60)
```

```
new Minutes-Exception ("Minute value is
          <0 09 > 60");
else {
  System. out. pountly (min + "min");
if (sec < 0 11 sec > 60) {
 throw new Seconds_Exception ("Seconds value is >60");
 System. out. pouintly (see + " sec");
```

```
dass Time Demo &
 public static void main (Storing [] args)
    Scanner &c = new Scanner (Systom. in);
    System.out. printly ("Hours: ");
    int house = sc. nextInt();
   System. out. paint In ("Minutes:");
    jut minutes = 8c. nextlut ();
   System. out. pointln ("Seconde: ");
   int seconds = sc. next int ();
  se.close();
  Time mylime = new Time (nours, minutes,
      seconds);
 tay &
    System. out. pointly ("In Time: ");
    my time. display ();
catch (Howy Exaption e)
    System. out. print (n(e); 3
```

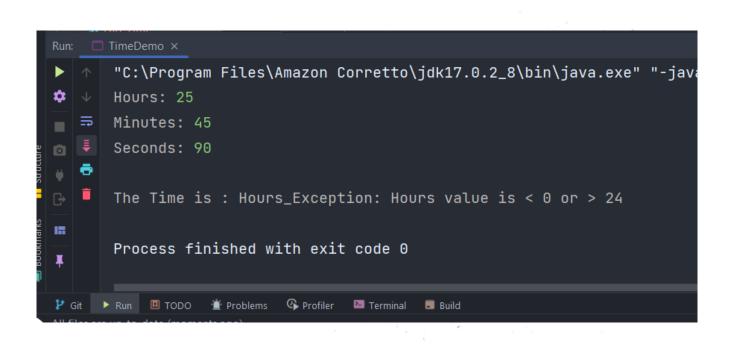
```
catch (Minutes_Exception e)

8 ystem. out. Pointle (e);

3 cotch (Seconds_Exaption e)

8 ystem. out. pointle (e);

9
```



The same standing the

```
Jues 7
       CheckAngement Exception extends Exception &
      Check Angument Exception (Staing 8) {
               super (8);
  public class Check Argument Exception Demo &
      public static int calculate 8 cm (int args, int[]
       arguments Aguray)
     therows Check Angument Exception
        int sum = 0;
        if (args < 4)
          throw new Check Argumond Exception ("Argument
         passed in less than four");
       else
            fon (int i=0;
                           i < on gs; i++)
```

```
8cm = 8cm + (argument Ascroy [i] *
             orguments Averag[1]);
     getwin sum;
public static void main (staing[] angs)
      jut[] arguments Arong = new int[args.length];
       for (int i=o; ic orgs. bugth; i++)
         arguments Agoray [i] = Integer. posse Int (args [i]);
          jut result = calculate Sun (args. length,
                         orguments Asoray).
         System. out. porint Ln ("Sum of square, is: "+
```

catch (check Angument Exception e)

{
System.oud.paintln(e);
}

(

Run: CheckArgumentExceptionDemo ×

C:\Program Files\Amazon Corretto\jdk17.0.2\_8\bin\java.exe"

CheckArgumentException: Arguments passed is less than four

Process finished with exit code 0

Given: Terminal Suild

Problems Profiler Terminal Build

```
Ques 8
  public class Finally Demo
            Static Void main (Stering [] args)
           System. out. paintly (10/0);
       Catch (Ainthmetic Exception
            System. out. pointln (e);
        finally
            System. out. pountln ("Finally Block");
         System. out. point Ln (" & nol");
```

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