Specifications:

```
class definitions:
   class Header:
        Variables:
            String from
            String to
        Implement a parameterized constructor to initialize
   class Email:
        Variables:
            Header header
           String body
            String greetings
        Implement a parameterized constructor to initialize
 class fmailOperations:
        Methods:
            emailVerify(Email e): Use regular expression to
                Return type:int
               Visibility: public
            hodyEncryption(Email e): Use Ceasar cipher(Shift
                Return type:String
               Visibility: public
            greetingMessage(Email e): In this method you have
```

```
    Autocomplete ready ①

              return cipher;
 75
 76
 77 v public String greetingMessage(Email e)(
           String name - e.header.from;
           int index = name.indexOf('@');
 66
           String only name = name.substring(0,index);
 81
           String final greet = only name.concat(e.greetings);
 #2
           return final greet;
 83
 84
 115
 #7 v public class Source (
           public static void main(String args[] ) throws Exception [
          /* Enter your code here, Read input from STDIN, Print output to STDOUT
       .,
           //-You can Implement your main() to check your Program.
           Header h = new Header("anshuman@cap.com", "aditya@cap.com");
 91
           fmail e = new Email(h, "Hi", "Thank You");
 92
           EmailOperations eop - new EmailOperations():
 93
           cop.emailverify(e);
 94
 95
           eop.bodyEncryption(e);
 96
           eop.greetingMessage(e);
 91
```

Ln 32 Col 67 Java 8

1 revision found for this solution.



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6/6 Questions attempted

Class Variables:

- · class Header: It contains two email id 'from' and 'to'. 'from' signifies the sender's email address and 'to' signifies receiver's email address.
- · class Email: This class contains three parts: first Header header which has two email address from and to the second body which contains the message to send and third greetings which contains greetings such as "Regards", "Thank you", etc.

To access a variable in Header class through Email object we use:

Example to access "from" address from the Email object e we use : e.header.from:

Tasks:

- . Implement the two classes Email and Header class according to the specifications.
- · Implement the three methods in the EmailOperations class:
- 1. emailVerify (Email e)
- 2. bodyEncryption (Email e)
- 3. greetingMessage (Email e)

Method Description:

1. emailVerify(Email e):



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6/6 Questions attempted

You have to implement the following methods under Source class:

- handleException (Activity a) In this function you have to check for exceptions.
- doOperation (Activity a) this function should implement the string operation between string1 and string2 for the operator operator.
- . If operator = '+', concat the strings string1 and string2.
- e.g. for string1 = "hello" and string2 = "world".
 then result = "helloworld"
- If operator = V, replace the contents of string2 in string1 with empty string.
- e.g. If string1 = "helloworld" and string2 = "world", then result = "hello"

Input Format

The main() method has already been implemented, which will
pass values for the variables: string1. string2 and operator.

Tasks:

In the function handleException (Activity a):

- Check that the value of either string1 or string2 variable is <u>null</u>, then throw appropriate exception for NullPointerException and return "Null values found".
- Check if the value of operator variable is not equal to these string operators ((+ or -) using logical AND operator. If the



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Specifications:

```
class definitions:
   class Header:
        Variables:
            String from
            String to
        Implement a parameterized constructor to initialize
   class Email:
        Variables:
            Header header
           String body
            String greetings
        Implement a parameterized constructor to initialize
 class fmailOperations:
        Methods:
            emailVerify(Email e): Use regular expression to
                Return type:int
               Visibility: public
            hodyEncryption(Email e): Use Ceasar cipher(Shift
                Return type:String
               Visibility: public
            greetingMessage(Email e): In this method you have
```

```
    Autocomplete ready ①

 49 v public String bodyEncryption(Email e){
           String plaintext = e.body;
 51
           int shift =3:
           string cipher-":
 53
           char alb:
 54 V
           for(int i=0;i<plaintext.length();i++)(
 55
               alb = plaintext, charAt(i);
               if(alb)= a'&& alb<='2")(
                   alb-(char)(alb+shift);
                   if(alb>'z')(
                       alb = (char)(alb + 'a'-'z'-1);
                   cipher - cipher +alb:
 62
               else if(alb>='A' && alb <= 'Z')(
 63 V
                   alb-(char)(alb-shift);
 64
                   if(alb>'Z')[
                       alb=(char)(alb + 'a'-'Z'-1);
 68
                   cipher-cipher+alb;
               elsel
                   cipher=cipher+alb:
 74
               return cipher;
```

Ln 32 Col 67 Java 8

1 revision found for this solution.



Specifications:

```
class definitions:
   class Header:
        Variables:
            String from
            String to
        Implement a parameterized constructor to initialize
   class fmail:
        Variables:
            Header header
           String body
            String greetings
        Implement a parameterized constructor to initialize
 class fmailOperations:
        Methods:
            emailVerify(Email e): Use regular expression to
                Return type:int
               Visibility: public
            bodyEncryption(Email e): Use Ceasar cipher(Shift
                Return type:String
               Visibility: public
            greetingMessage(Email e): In this method you have
```

```
    Autocomplete ready ①

  1 ) import java.io.";
  o v class Email(
       /9 Implement Email Class according to the specifiaction.
                                                                                         ***
       Header header:
       String body;
       String greetings:
  11 v Email(Header h, String b, String greet){
           this header-h:
 13
           this.body-b;
  14
           this.greetings-greet;
  15
  16
  17 v class Header(
       // Implemet the Header Class according to the specifiaction.
       String from:
       String to:
    v Header(String fr,String to)(
           this.from fr;
           this.to-to:
  2.8
 24 > 1
  26
  27
  28 V class EmailOperations(
       // Implemet the Three methods specified in the specified.
  30
  #1 v public int emailverify(Email e)(
                                                                                     Ln.6.Col 13 Java B
```

1 revision found for this solution.



Specifications:

```
class definitions:
   class Header:
        Variables:
            String from
            String to
        Implement a parameterized constructor to initialize
   class fmail:
        Variables:
            Header header
           String body
            String greetings
        Implement a parameterized constructor to initialize
 class [mailOperations:
        Methods:
            emailVerify(Email e): Use regular expression to
                Return type:int
               Visibility: public
            hodyEncryption(Email e): Use Ceasar cipher(Shift
                Return type: String
               Visibility: public
            greetingMessage(Email e): In this method you hav
```

```
    Ausocomplete ready (f)

  28 y class EmailOperations(
       // Implemet the Three methods specified in the specified.
  (LL)
  31 v public int emailVerify(Email e){
      * String regex + "^[\\w|#$%\"+/-?'{|}-^ ]+(?:\\.[\\w|#$%\"+/?'{|}-^-]+)*#(?
       :[a-zA-z0-9- Pattern pattern - EmailOperations.emailVerify(Email)
  11
                    Pattern pattern - EmailOperations.emailVerify(Email)
  1.4
  35
           Pattern pattern - Pattern.compile(regex):
           Matcher match1 = pattern.matcher(e.header.from):
  36
           Matcher match2 = pattern.matcher(e.header.to);
  37
           boolean first - match1.matches();
  38
           boolean second = match2.matches();
  19
           if(match1.matches() -- true && match2.matches() -- true)
  40
  41
           return 2:
           if(first--true && second--false || first--false && second--true)
  43
  44
           return 11
           if(first==false & second==false)
  44
  45
           return 0:
  46
  47
           return 0:
  48
  49 v public String bodyEncryption(Email e){
           string plaintext = e.body;
  50
           int shift -3:
           String cinher-".
                                                                                    Ln 32 Col 67 Java 8
```

. 1 revision found for this solution.



Autocomolete ready ②

exceptions, which means each catch block is used to handle different types of exceptions.

If you use multiple catch blocks for the same type of exception, then it will give you a compile-time error because Java does not allow you to use multiple catch block for the same type of exception. A catch block is always preceded by the try block.

Write a program to demonstrate Multiple Exceptions.

Specifications:

```
data fields:
 String stringt
 String string2
 String operator
Constructor to initialize the class
    method definitions:
       handleException(Activity a): implement try-cate
            return type: String
       doOperation(Activity a): implement switch statem
            return type: String
            visibility: public
```

You have to implement the following methods under Source class:

handleException (Activity a) - In this function you have to check

```
public String handleException(Activity a){
26 V
37
28 V
           try(
                 if(a.string1 == null && a.string2 == null){
29 V
                 throw new HullPointerException();
30
31
               if((a.operator != "+") & (a.operator != "-" ))(
12 0
100
                 throw new Exception();
3.4
35
               return "No Exception Found":
17. V
           catch(NullPointerException e){
             return "Rull values found";
33.5
10
40 0
            catch(Exception e){
41
                   return a.operator;
42
43
         public String doOperation(Activity a)(
44 ~
           string result = "";
45
           if(a.operator == "+")(
46 4
47
               result = a.string1.concat(a.string2);
48
           else if(a.operator == "-")(
49 4
             result = a.string1.replace(a.string2,"");
50
51
                                                                                   Ln 55, Col 3 Java B
```

4 revisions found for this solution.





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Ø 23 m 51 s

In the function handleException (Activity a):

- . Check that the value of either string1 or string2 variable is null. then throw appropriate exception for NullPointerException and return "Null values found".
- . Check if the value of operator variable is not equal to these string operators ((+ or -) using logical AND operator. If the condition is true then throw and return the default exception with the Operator as the return message.
- . If no exception is found return "No Exception Found".

In the function doOperation (Activity a):

· perform the string operations, using switch statement and return the correct value.

IMPORTANT:

. If you want to test your program, you can implement a main() function given in the stub and you can use RUN CODE to test your main() provided you have made valid function calls with valid data required.

EXECUTION TIME LIMIT

10 seconds



exceptions, which means each catch block is used to handle different types of exceptions.

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Write a program to demonstrate Multiple Exceptions.

Specifications:

```
class data fields:
    String string!
    String string2
    String operator
Constructor to initialize the class
:
    method definitions:
    handleException(Activity a): implement try-catch
    return type: String

    doOperation(Activity a): implement switch statem
    return type: String
    visibility: public
```

You have to implement the following methods under Source class:

. handleException (Activity a) - In this function you have to check

```
    Autocomplete ready ②

   ) import java.io.";
   6 v class Activity(
         //Implement Activity class here...
         String string1:
         String string2;
  10
         String operator;
  11
  12
         Activity()()
  13
         Activity(String st1, String st2, String op)(
           this.string1-st1;
           this.string2-st2;
  16
           this.operator-op:
  17
  18
  19
  20
  22

∨ public class Source €

         //implement the two function given in description in here...
  25
           public String handleException(Activity a)(
  26 V
  27
  28 V
             try(
                   if(a.stringt -- null && a.string2 -- null){
  29 V
  342
                   throw new NullPointerException():
                                                                                       Ln 55, Col 3 Java B
```

Ln 55, Col 3 Java

4 revisions found for this solution



Specifications:

```
class definitions:
   class Header:
        Variables:
            String from
            String to
        Implement a parameterized constructor to initialize
   class Email:
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            Header header
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        Implement a parameterized constructor to initialize
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        Methods:
            emailVerify(fmail e): Use regular expression to
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            bodyEncryption(Email e): Use Ceasar cipher(Shift
                Return type:String
               Visibility: public
            greetingMessage(Email e): In this method you have
```

```
    Ausocomplete ready ①

               elset
                   cipher-cipher+alb:
  74
               return cipher:
  15
  76
  77 v public String greetingMessage(Email e)(
           String name = e.header.from;
           int index = name, indexOf('@');
           String only name = name.substring(0,index);
  1005
           String final greet - only name.concat(e.greetings);
  B1
           return final greet;
  82
  83
  84
  85
    v public class source (
           public static void main(String args[] ) throws Exception [
               /* Enter your code here. Read input from SIDIN. Print output to SIDOUI
  20
       */
           // You can implement your main() to check your Program.
  90
           Header h = new Header("anshuman@cap.com", "aditya@cap.com");
           Email e - new Email(h, "Hi", "Thank You");
  92
           EmailOperations eop - new EmailOperations();
 91
           eop.emailVerify(e);
  9.4
```

Ln 32 Col 67 Java 8

1 revision found for this solution.



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Autocomplete ready ②

6/6 Questions attempted

(7) HELP

exceptions, which means each catch block is used to handle different types of exceptions.

If you use multiple catch blocks for the same type of exception, then it will give you a compile-time error because Java does not allow you to use multiple catch block for the same type of exception. A catch block is always preceded by the try block.

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```

You have to implement the following methods under Source class:

handleException (Activity a) - In this function you have to check

```
catch(HullPointerException e)(
17 V
             return "Hull values found";
32
19
40 ~
            catch(Exception e)(
41
                   return a.operator;
42
43
44 V
         public String doOperation(Activity a)(
45
           String result = "";
           if(a.operator -- "+")(
45 V
               result * a.string1.concat(a.string2);
47
48
           else if(a.operator == "-")[
46 0
             result = a.string1.replace(a.string2,"");
50
51
52
           return result:
54
       public static void main(String args[] ) throws Exception (
         //write your own main to check the program...
56
         Activity ac - new Activity("Hello", "World", "+");
57
58
         Source s . new Source():
         s.handleException(ac);
59
         s.doOperation(ac);
60
61
62
                                                                                    Ln 55, Col 3 Java B
```

4 revisions found for this solution.



