JYOTHIS BENNY
20PMCI35

CO4- Handle Exceptions and perform IO operations.

III (A1)

```
1.  class ArithmaticExceptionExample
2.  {
3.  public static void main (String args[])
4.  {
5.      try{
6.          int num1 = 35;
7.          int num2 = 0;
8           int result = num1/num2;
9           System.out.println(result);
10          }
11      catch (ArithmeticException e) {
12          System.out.print ("cant divide by zero");
13          }
14      }
15  }
```

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Output :

Cant divide by Zero.

III(A2)

```
1  public static class UserDefinedException
2  {
3      public static void main (String args[])
4      {
5          Scanner S = new Scanner (System.in);
6          System.out.println ("Enter a word :");
7          String word = S.nextLine ();
8          try {
9          if word.equals ("hello)
10             {
11             throw new Exception ();
12             }
13         }
14         catch (Exception ex) {
15             System.out.println (ex);
16         }}
```

```
17.     System.out.println ("Enter a number");
18          int number = S.nextInt ();
19          try {
20              if (number < 0 and number > 9)
                {
21                  throw new Exception(ex);
22              }
23          Catch ( Exception ex)
            {
25              System.out.println (ex);
26          }
27      }
28  }
```

Output.

Enter a word : hello

Enter a number : 8

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1(A)

```
1  public class Rectangle
2  {
3      double height;
4      double width;
5
6      getArea(height, width)
7          {System.out.println("Area is:")
8          System.out.println(height * width)
9          }
10     getPerimeter(height, width)
11         {System.out.println("perimeter is:")
12         System.out.println(2 * height * width)
13         }
14
15 public static void main(String args[])
16     {
17         getArea(1, 1);
18         getPerimeter(1, 1);
```

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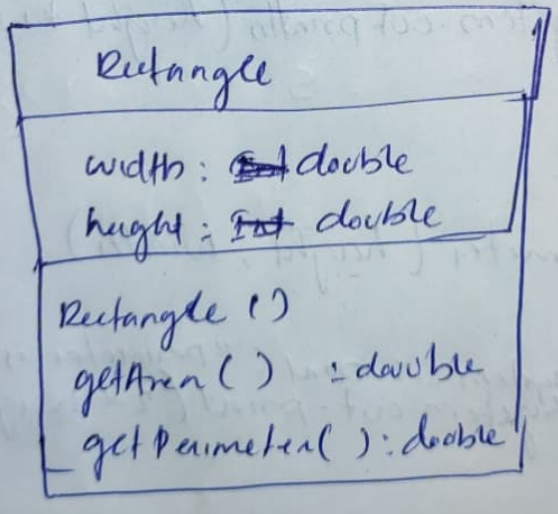
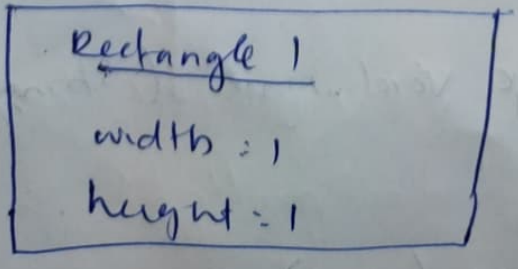
```
19      }
20  }
```

output

Area : 1
Perimeter : 2.

1(A2)





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11(B)

```
1  public class Person {
2      String name, address, phone, email;
3      public pero (string name){
4          this.name = name;
5      }
6      public void setname (String name){
7          this.name = name; }
       # do set and get for all the variables.
8      public String getname ( ){
9          return name;
10     }
       # do set and get for all the variables
       .
       .
       .
n  public class Student extends Person{.
```