

# FALL SEM –(2020-21)

## CSE2005

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**SLOT : L5**

An old man wants to distribute sweets to children near his home. He was confused of how many sweets he must give to each child. Help the old man by writing a java program where the number of sweets and number of children are initialized using parameterized constructor. Observe what happens when there are zero number of children and handle the exception if any.

### CODE:

```
import java.util.*;
class Sweets_and_Children{
    int Sweets;
    int Children;
    Sweets_and_Children(int Sweets,int Children){
        this.Sweets = Sweets;
        this.Children = Children;
    }
    public void Dist_to_each_child(int a, int b){
        try{
            double r = a/b;
            if(a%b==0){
                System.out.println("\nTherefore, the no.of sweets given to
each child is "+r);
            }
            else{
                System.out.printf("\n%d/%d th part of a sweet is given to
each child\n",a,b);
            }
        }
        catch(Exception e){
```

```

        System.out.println("\nNumber of children are zero");
    }
}
}
public class Main {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("\nEnter the value of n :");
        int n = scan.nextInt();
        for(int i =0;i<n;i++){
            System.out.println("\nNo.of sweets :");
            int x = scan.nextInt();
            System.out.println("\nNo.of Children :");
            int y = scan.nextInt();
            Sweets_and_Children object = new Sweets_and_Children(x,y);
            object.Dist_to_each_child(x,y);
        }
        scan.close();
    }
}

```

## OUTPUT:

```

> javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
> java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main

Enter the value of n :
3

No.of sweets :
4

No.of Children :
2

Therefore, the no.of sweets given to each child is 2.0

No.of sweets :
5

No.of Children :
12

5/12 th part of a sweet is given to each child

No.of sweets :
4

No.of Children :
0

Number of children are zero
> 

```