Example

$$a = [7, 3, 5, 2]$$

Sorted Median
[7] 7.0
[3, 7] 5.0
[3, 5, 7] 5.0
[2, 3, 5, 7] 4.0

31-5=3740

3 t 5

= 8 = 4.0

7352

7 7.6

[3,7] - 5.0

(3,5,7) - 5. 6

S2,3,5,737 4.0

[3,5,7]

(2, (3, 5,), 7)

[2,3] (5) 7] case 1 greater Smaller ED2 (3, 4,5) 10, 30, 75] [100,10,20,30] 100.0

Function STDIN for (1=1; a[] size n = 6a = [12, 4, 5, 3, 8, 7]De Colletions. reverseorder() 17.0, 8.0, 5.0...

Find the Running Median

```
List<Double> list = new ArrayList<>();
double med = a.get(0);
list.add(med):
PriorityQueue<Integer> smaller = new PriorityQueue<>(Collections.reverseOrder());
PriorityQueue<Integer> greater = new PriorityQueue<>();
smaller.add(a.get(0));
for(int i=1;i<a.size();i++){</pre>
    int x = a.get(i);
    if(smaller.size()>greater.size()){
        if(x<med){
            greater.add(smaller.poll());
            smaller.add(x);
        }else{
            greater.add(x);
        med = (double)(smaller.peek()+greater.peek())/2;
    }else if(smaller.size()==greater.size()){
        if(x<med){</pre>
            smaller.add(x);
            med = (double)(smaller.peek());
        }else{
            greater.add(x);
            med = (double)(greater.peek());
        if(x>med){
            smaller.add(greater.poll());
            greater.add(x);
        }else{
            smaller.add(x);
          med = (double)(smaller.peek()+greater.peek())/2;
    list.add(med);
return list:
```

OOPS

DOPS - NOT 9 Programming Language

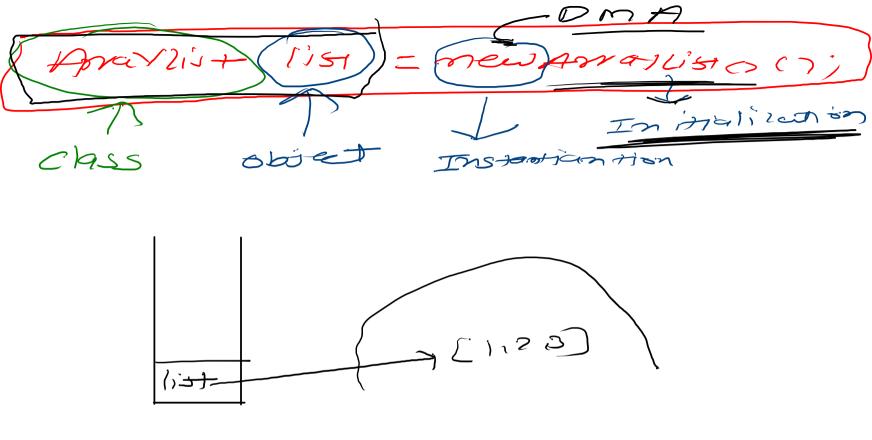
(2) object is a physical entity

+ won Living

3) Applications.

(y)

Class & Object int ED ear = new int [5] String () name = new String (5) L)ass Erro Sqi ary



j'nt = 0 - @ 7100 2000 C1.59198-5000

```
public class Solution {
    static class Batman1{
       String name="Batman 1";
       int rating= 8;
       int money = 200000 ;
       int profit = 5000;
       String leadActor = "Rachel Gupta & Nikhil Chinapa";
        String leadActress = "Disha";
    static class Batman2{
       String name="Batman 2";
       int rating= 9;
       int money = 500000;
       int profit = 8000;
       String leadActor = "Rannvijay Singha & Prince Narula";
       String leadActress = "Neha Dhupia";
    static class Batman3{
       String name="Batman 3";
       int rating= 10;
       int money = 700000;
       int profit = 6000;
       String leadActor = "Rachel Gupta & Prince Narula";
       String leadActress = "Neha Dhupia";
```

```
public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named S
    Batman1 bt1 = new Batman1();
    Batman2 bt2 = new Batman2();
    Batman3 bt3 = new Batman3():
     // System.out.println(bt1.name);
     System.out.println(bt1.rating);
     System.out.println(bt1.money);
     System.out.println(bt1.profit);
     System.out.println(bt1.leadActor);
     System.out.println(bt1.leadActress);
     // System.out.println(bt2.name);
     System.out.println(bt2.rating);
     System.out.println(bt2.money);
     System.out.println(bt2.profit);
     System.out.println(bt2.leadActor);
     System.out.println(bt2.leadActress);
     // System.out.println(bt3.name);
     System.out.println(bt3.rating);
     System.out.println(bt3.money);
     System.out.println(bt3.profit);
     System.out.println(bt3.leadActor);
     System.out.println(bt3.leadActress);
```

}

Class, A class is a ramed group of properties and Eunctions. Hombrata ColoY SU20 E1 CLICACNIC white Bnw