- O car java util
 - (b) False, "in overeitde you have to keep

 the method similar to cleanengine().

 Because in overeiting method declaration

 premains exactly same. If it was overload

 then it would run fine.
 - (C) Two tags/marker Putorfaces are Socializable or Claneable.

Since in tags marker does not have any one methods or variable in it and they one empty. And in the class we saw that cleanur.

Socializable and Cloneable are also empty and we just implement them.

what basically they source as TVM when sees there inverface it does some special operation.

associated with them.

(d) By using Polymosphism (compile-time) we can achieve that since the compiler knows about the method we are calling exactly.

Advantages:

main advantage is it gives used a way to resure code . We just have to declare a method and can assign the code in other tike as in instrugences.

```
2)(0)
     final class Point 2D < T> {
         private T X-co-ordinde;
          private T Y-co-ordinate;
          public Point 2D (T n, Ty)
          { X-co-ordinate = n:
              Y-co-ordinate = y; }
        public T get X () { retwen X-odinate;}
      public T get Y() { return Y-ordinate;}
   public class Hain &
       public static void Main (String augus[]))
          Point 2D p = new Point 2D (10, 16);
           p. get X ();
           p. getY();
```

```
(p)
  public class Fibonacci extends Recursive Task <int > {
exprivate static Map <iut, lut > mapping =
                  new Hashmap (ind, int > ().
     int n;
    public Fibonacci (intn) {n=n;}
     public sureger compute () {
        if (n<2) retwen n;
    -> if (mapping. contains key (n))
               retwen (mapping. get value (n))
         else
             int result = 11 ---
         mapping. setvalue (n);
            , xuturn result; ?
         public static void main (strings [] args)
               11 . - - - 1111
```

thetract class does not have all its method obstract whereas in Interface all the methods are abstract only.

We use abstract keyword for abstract class and interface for interface class.

Interface usually supportes multiple Interitance while abstract class does not support it.

