

2) Complex no is $10.0 + 15.0i$
 \uparrow \uparrow
 double re double im

4) encapsulation \rightarrow hiding data

5) Line 15
execute because
overridden by line 3

6) 5 6 7
as 1 ← exception goes to catch (2nd) so 5, then
finally so 6, then 7

7) Base class = Parent Class
Here Crew
as extended by Terry.

8) for (i=0; i < length; i++)
 if (even divisible by 2)
 change value
 else if (not even)
 not needed return same

a) for (i=0; i < length; i++) {
 if (not all 5 and 8)
 false
 }

→ true ← when all 5 as well as 8

10) Stick 1 2 3

1 + 2	< 3	no Δ
2 + 3	< 1	no Δ
3 + 1	< 2	no Δ

boolean because T or F

double ← parameter

if (1 + 2 <= 3)
 F

else if (2 + 3 <= 1)
 F

else if (3 + 1 <= 2)
 F

else

T

11) Num Deno
Q = Num / Deno.

if deno = 0
can't divide

exception
arithmetic

so try catch

12) String <T> Trafficlights = d }

Y → Orange
any length

```
for ( row = 0 ; row < T.length ; row++ ) {  
    for ( col = 0 ; col < T[row].length ; col++ ) {  
        if ( yellow ) {  
            T[row][col] = orange  
        }  
    }  
}
```

13) Employee

```
int employeeID  
String name  
String email  
String jobTitle
```

Constructors

()

(id , name , email)

Get and Set for all

String toString
return details

void enroll Health Plan
println (" ");

14) Faculty extends Employee

String departmentName
int no of Class Teaching
boolean is Tenured
int yearsAtSfso

Constructor

Faculty ()
set id
set name

Faculty (id , name , department , no. class , is tenured)
Set all

toString
return name id department name

Getter & Setter for faculty data fields

Override

enroll Health Plan ()