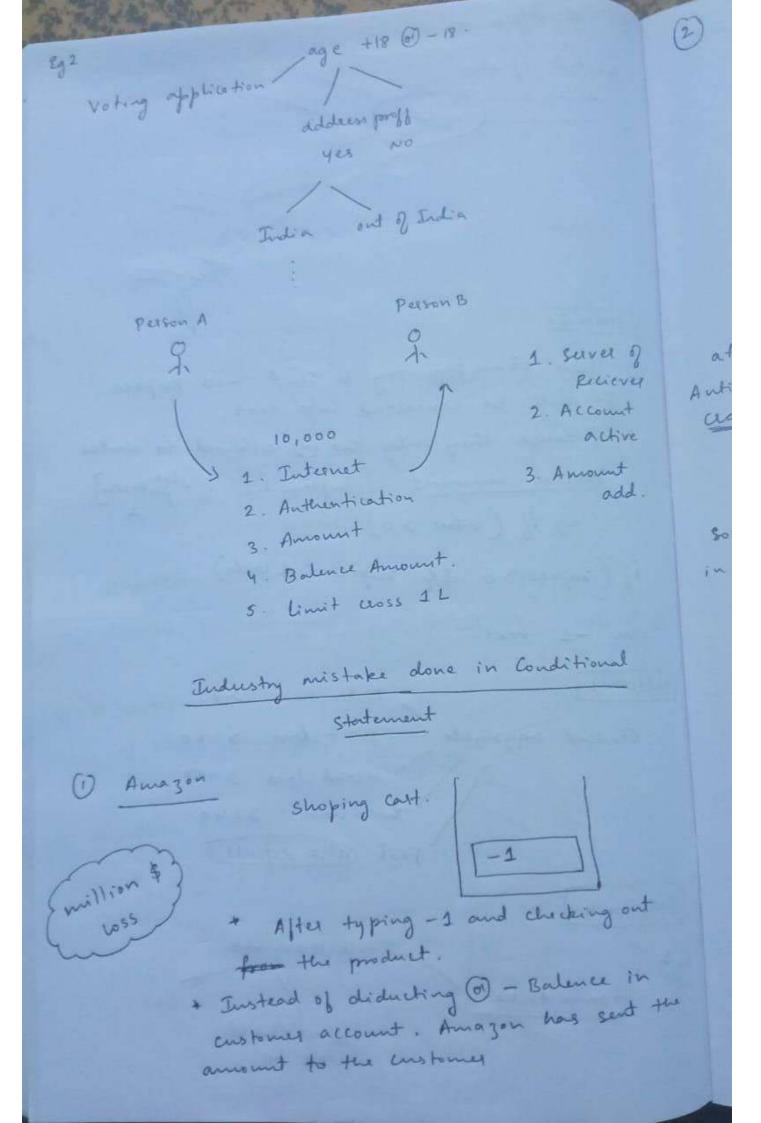
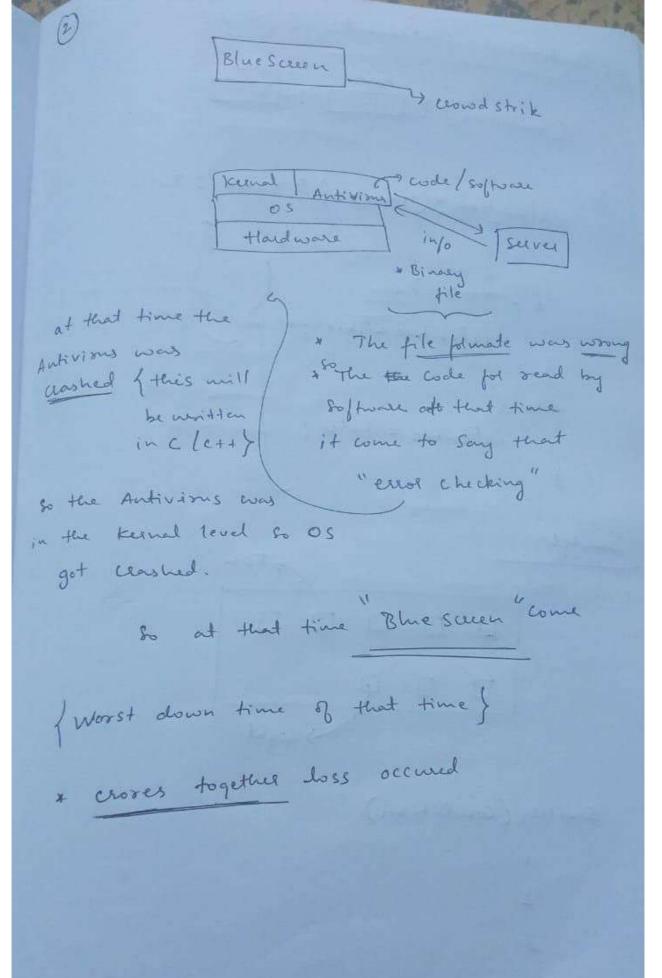


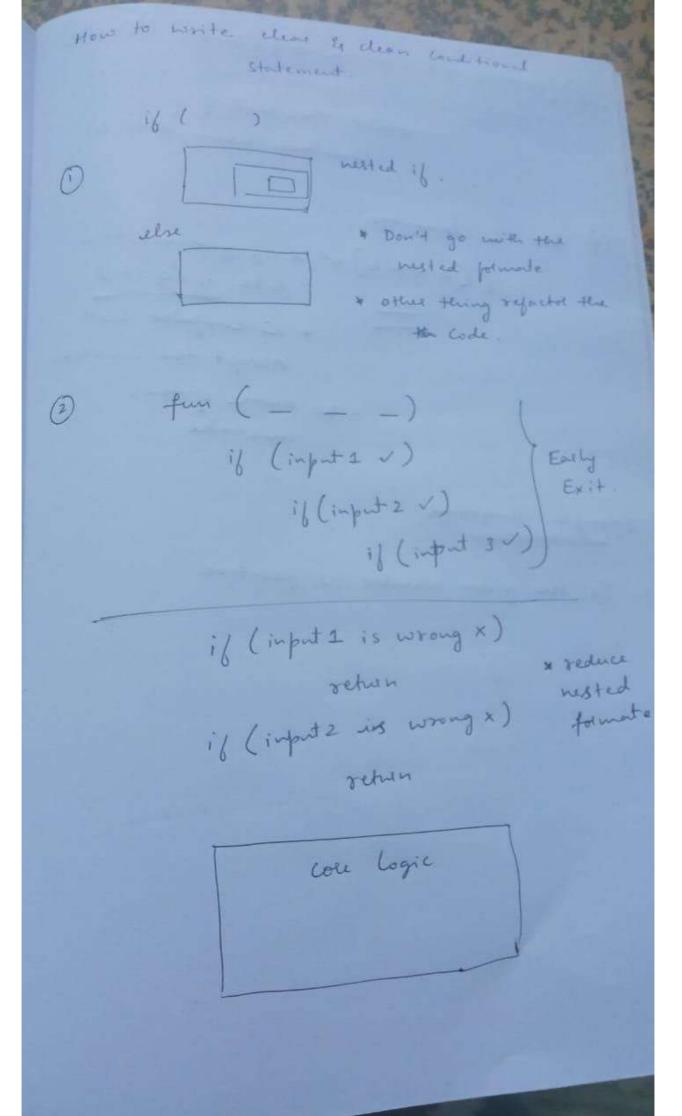
1 #pottern 4 Nested if else Condition il Coundition Pattern 2 Eg: In phone pay try to Send -10 Rupees It will be converted into text. Because they only set @ allowed to enter Positive mumbers [Implemented if else pattern] => if (value >0) if (rapees > 0 ff supres < 1 lath) else -1 text. Distinction >75 Pattern 3 Student aggrigate - First class > = 60 > Second class >= 50 Third class >=40 Fail (also default) Pattern 4 5 tickets available where should seets be





Conditional Statement. (Condition) ? []: [is Position = (num > 0) ? True : False; il (num > 0) { is Positive = True ; is Positive = False; Smitch Fan -> light. Switch (Condition)

12 default. - Invalid input



(3) if (cond 2) & f (cond 3) [(cond)]

avoid tens kind of

condition using AND OR

Condition using AND OR

(i) In a language

i) (a = b) / * ib you written

i) (a = b) / * ib you written

(i) ke if (a = b)

Accept the unistake

* Be aware of tens

mistake

1. Is the given Number is positive of negative

```
Day14 > 4 Positive.java > 8 Positive > main(String[])
       public class Positive{
  3
           Run | Debug
           public static void main(String[] args){
  4
  5
                int Number = 10;
  6
  7
                //It does no work for negetive numbers
  8
  9
                if (Number > 0){
 10
                    System.out.println(x:"Number is Positive");
 11
 12
 13
 14
```

 Run: Positive + ∨ □ ··· □ ··· □ × **PROBLEMS** OUTPUT PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclip se Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExcept ionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStora ge\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3 \bin' 'Positive' Number is Positive PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>

TFRMINAL

```
Day14 > 4 Positive.java > 4 Positive
  2
       public class Positive{
  3
           Run | Debug
           public static void main(String[] args){
  4
  5
  6
                int Number = -1;
  7
                //Checks if the number is positive
  8
  9
                if (Number > 0){
                    System.out.println(x:"Number is Positive");
 10
 11
 12
                //Comes here if the above condition gets false
 13
                else{
 14
                    System.out.println(x:"Number is Negative");
 15
 16
 17
 18
```

PROBLEMS OUTPUT **TERMINAL**

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclip se Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExcept ionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStora ge\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3 \bin' 'Positive' Number is Negative

```
Day14 > 4 Positive.java > 4 Positive
       //Is the given Number is Positive Negative or Zero
 2
 3
       public class Positive{
           Run | Debug
           public static void main(String[] args){
 4
 5
               int Number = 0;
 6
 7
               //Checks if the number is Positive
 8
               if (Number > 0){
 9
                   System.out.println(x:"Number is Positive");
10
11
12
               //Checks if the number is Negative
13
               else if (Number < 0){
14
                   System.out.println(x:"Number is Negative");
15
16
17
               //Comes here if the above condition gets false
18
19
                   System.out.println(x:"Number is Zero");
20
21
22
23
```

 Run: Positive + ∨ □
 □ ··· □
 □ ··· □
 □ ··· □
 □ ··· □ □ ··· □ · **TERMINAL PROBLEMS** OUTPUT

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclip se Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExcept ionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStora ge\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3 \bin' 'Positive' Number is Zero

```
Day14 > 👙 ClassGrade.java > ...
       //Classify student percentage into distinction , first class , second class ect
 2
 3
       public class ClassGrade {
 4
 5
           //Defination
           public static String getClassForPercentage(float percentage){
 7
               if (percentage >= 75){
                   return "Distinction";
 8
 9
               else if (percentage >= 60){
10
                   return "First class";
11
12
13
               else if (percentage >= 35){
                   return "Second class";
14
15
               else if (percentage >= 35){
16
                   return "Third class";
17
18
19
               else{
20
                   return "Fail";
21
22
           Run | Debug
23
           public static void main(String[] args) {
               //Function Invocation or Call
24
25
               float Student = 23;
26
               System.out.println("The result of Student : " +getClassForPercentage(Student));
27
28
29
30
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Run: ClassGrade + V II iii ··· | [] ×

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.

0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\Ap
pData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Al
gorithm365 c0509dd3\bin' 'ClassGrade'

The result of Student : Fail

```
//Convert Day Month in digit to Word
 1
     //Example : if input is 5 then return May
 3
 4
     public class Switch {
 5
 6
        public static String get_Month_Str(int month){
 7
 8
            switch(month){
 9
               case 1:
10
                  return "Jan";
11
               case 2:
                  return "Feb";
12
13
               case 3 :
14
                  return "March";
15
               case 4:
                 return "April";
17
               case 5:
                 return "May";
18
19
               case 6:
20
                  return "June";
21
               case 7:
22
                  return "July";
23
               case 8:
24
                 return "August";
25
                  return "Sept";
26
27
               case 10 :
28
                  return "Oct";
29
               case 11 :
                 return "Nov";
31
               case 12 :
                  return "Dec";
32
33
               default :
34
                  return "Invaild month";
35
        Run | Debug
37
        public static void main(String[] args){
38
            System.out.println(get_Month_Str(month:12));
39
40
41
                                                                                               + ~ · · · | [] ×
PROBLEMS
          OUTPUT
                  DEBUG CONSOLE
                                 TERMINAL
                                           PORTS
                                                                                                  弦 Run: ClassG...
-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\
ing\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt ws\Algorithm365
9dd3\bin' 'Switch'
```

```
Day14 > 🐇 GreaterorSmaller.java > ધ GreaterorSmaller > 🗘 main(String[])
      //Greater or Smaller number using Conditional Statemnet
 3
      public class GreaterorSmaller {
          // public static String isGreaterOrSmaller(int Number1 , int Number2){
 5
 6
          //
                  if (Number1 > Number2){
                     return "Number 1 is Greater";
          //
 8
           //
 9
           //
                 else{
10
                      return "Number 2 is Greater";
           //
11
           //
          // }
12
           // public static void main(String[] args) {
14
15
                 System.out.println(isGreaterOrSmaller(10, 20));
17
           // }
18
20
           //Using ternary Operator
21
22
           public static void main(String[] args) {
23
24
               //Using ternary Operator
25
26
               int Number1 = 10;
27
               int Number2 = 20;
29
               String result = (Number1 > Number2) ? "Number 1 is Greater" : "Number 2 is Greater";
30
               System.out.println(result);
31
32
33
35
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

- Run: GreaterorSmaller + ✓ □ 🛍 ··· | [] ×

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\work spaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'GreaterorSmaller' '.

Number 2 is Greater