

## Q01

```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int limit = 5000;
    int transaction;
    int country;
    int rate_of_transaction;

    // Checking transaction amount
    printf("Please Enter your transaction amount:\n");
    scanf("%d", &transaction);

    if (transaction <= limit) {
        printf("Daily spending is within limit.\n");
    }
    else {
        printf("Suspicious activity detected: transaction exceeded daily limit!\n");
    }

    // Checking Country
    printf("\nEnter the country you wish to perform transaction in:\n");
    printf("1. Pakistan\n2. UAE\n3. UK\n4. USA\nEnter choice (1-4): ");
    scanf("%d", &country);

    if (country == 1 || country == 2) {
        printf("Country is normal.\n");
    }
    else if (country == 3 || country == 4) {
        printf("Suspicious activity detected: Transaction in unusual country!\n");
    }
    else {
        printf("Invalid choice.\n");
        return 0;
    }

    // Checking transaction frequency
    printf("\nEnter number of transactions in the last hour: ");
    scanf("%d", &rate_of_transaction);

    if (rate_of_transaction > 3) {
        printf("Suspicious activity detected: Too many transactions in short time!\n");
    }
    else if (rate_of_transaction >= 0 && rate_of_transaction <= 3) {
        printf("Transaction frequency is normal.\n");
    }

    printf("\nFraud detection check complete.\n");
    return 0;
}
```

25K-0128

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```
Please Enter your transaction amount:  
8000  
Daily spending is within limit.  
  
Enter the country you wish to perform transaction in:  
1. Pakistan  
2. UAE  
3. UK  
4. USA  
Enter choice (1-4): 1  
Country is normal.  
  
Enter number of transactions in the last hour: 2  
Transaction frequency is normal.  
  
Fraud detection check complete.  
  
Process returned 0 (0x0)  execution time : 11.958 s  
Press any key to continue.
```

F2ST

Date: \_\_\_\_\_

(Q1) Pseudo code

Start.

Set limit = 5000

Input transaction amount

If transaction <= limit

Print "Daily spending limit"

Else

Print "Transaction exceeded limit"

End if

Input country (1. Pakistan, 2. UAE, 3. UK, 4. USA)

If country = 1 OR country = 2

Print "Country is normal"

Else if country = 3 OR country = 4

Print "Transaction is unusual country"

STOP

End if

Input rate\_of\_transaction

If rate\_of\_transaction > 3

Print "Too many transaction is short time"

Else if rate\_of\_transaction > 0 AND rate\_of\_transaction < 3

Print "Transactions frequency normal"

End if

STOP

**FZST** **SU**

Q1 Algorithm

Step 1: Start

Step 2: Set limit = 5000 , Step 3: Input transaction

Step 4: if (transaction <= limit)  
Print "Daily spending is within limit"  
Else  
Print "Suspicious activity detected, transaction exceed daily limit"

Step 5: Input Country (1. Pakistan, 2. USA, 3. UK, 4. USA)  
Step 6: If (country == 1 OR country == 2)  
Print "Country is normal"  
Else if (country == 3 OR country == 4)  
Print "Suspicious activity detected. Transaction in unusual country"  
Else  
Print "Invalid choice" and stop

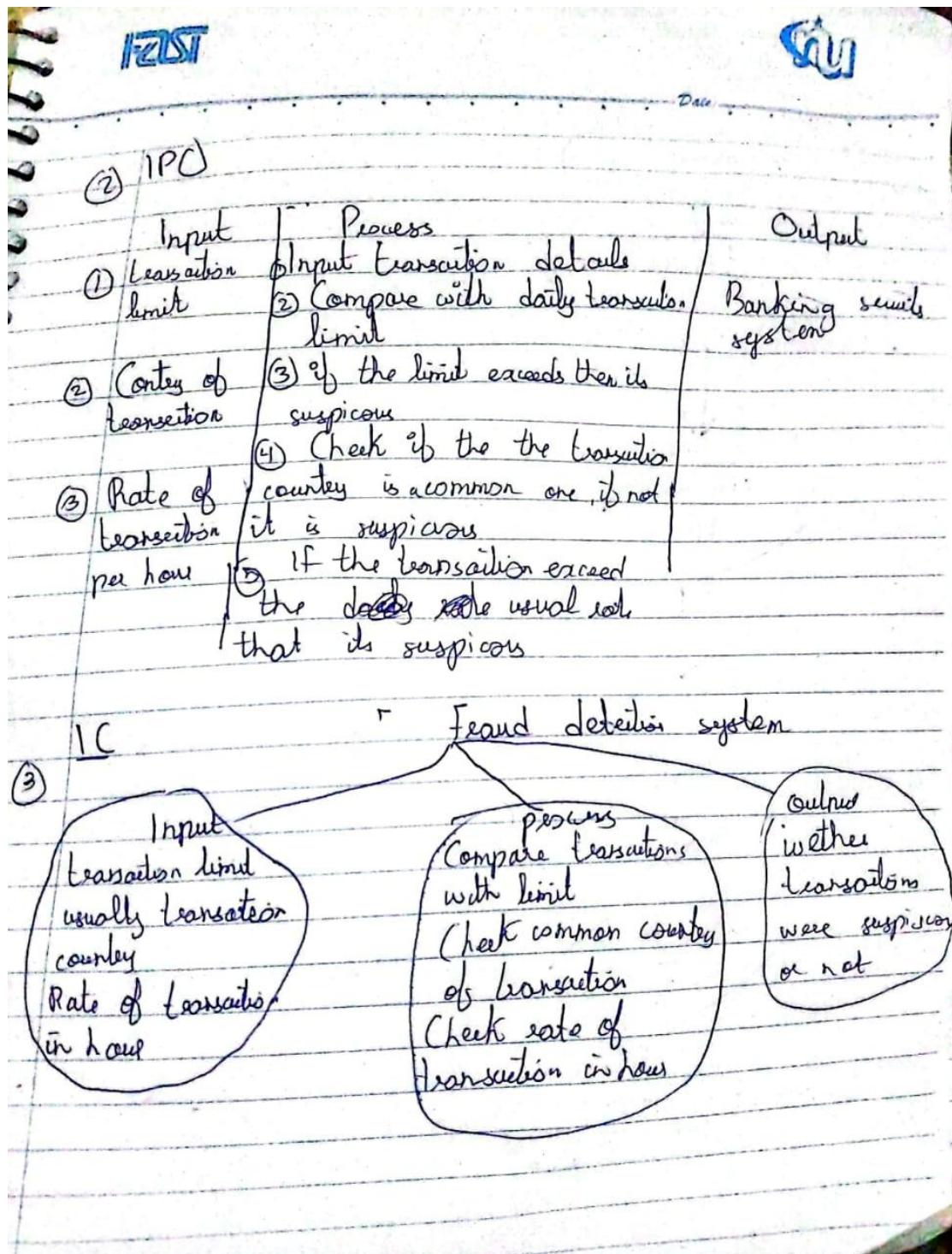
Step 7: Input rate - of - transaction

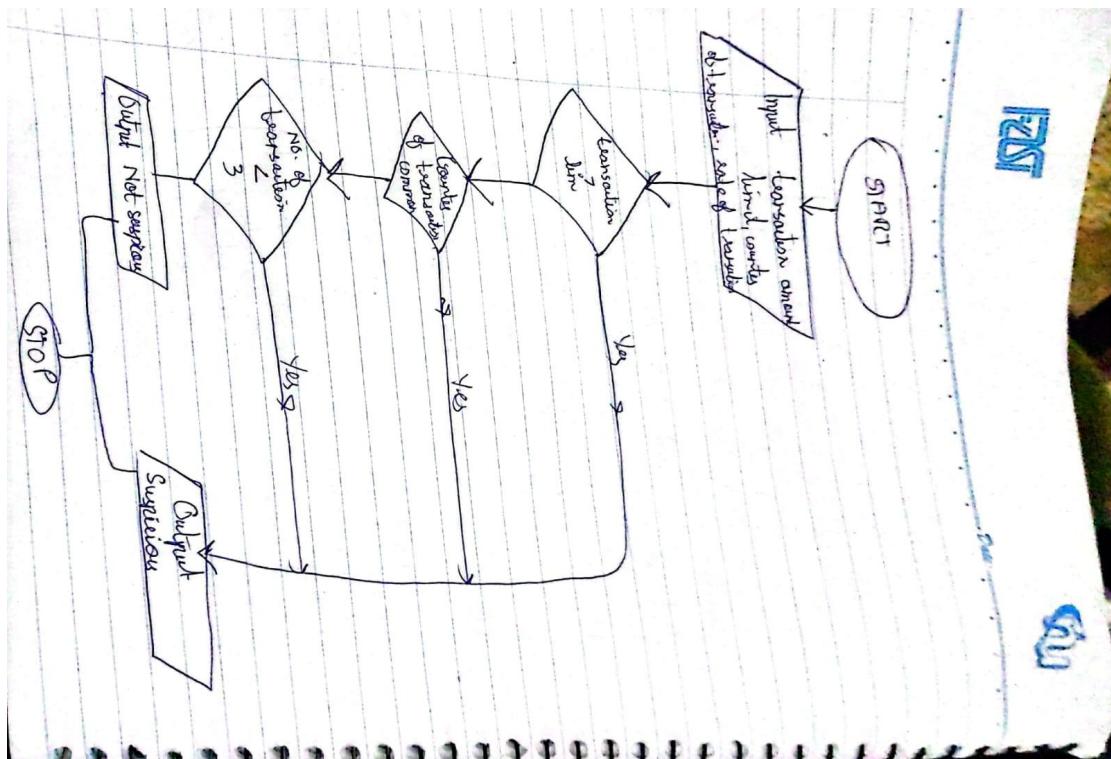
Step 8: If (rate of transaction > 3)  
Print "Too many transactions in short time"  
Else if (rate of transaction > 0 AND rate of transaction < 3)  
Print "Transaction frequency is normal"

Step 9: Print fraud detection check completed

Step 10: Stop.

Q1					
① PAC	<table border="1"><thead><tr><th>Given Data</th><th>Required results</th></tr></thead><tbody><tr><td><ul style="list-style-type: none"><li>• Transaction limit</li><li>• Country usually done - transactions</li><li>• Rate of transaction per hour</li></ul></td><td>Banking security system</td></tr></tbody></table>	Given Data	Required results	<ul style="list-style-type: none"><li>• Transaction limit</li><li>• Country usually done - transactions</li><li>• Rate of transaction per hour</li></ul>	Banking security system
Given Data	Required results				
<ul style="list-style-type: none"><li>• Transaction limit</li><li>• Country usually done - transactions</li><li>• Rate of transaction per hour</li></ul>	Banking security system				
Processing	<p>Set a limit to daily transactions</p> <p>If daily transaction &gt; limit then suspicious</p> <p>If transaction done in a rare country then it is suspicious</p> <p>If rate of rate transaction exceed a number in hour then its suspicious</p>				
	Alternatives				
	Manual checking				
	Creating a program				





{}

## Q02

```

#include <stdio.h>
#include <stdlib.h>

int main()
{
    int x_coordinate;
    int y_coordinate;

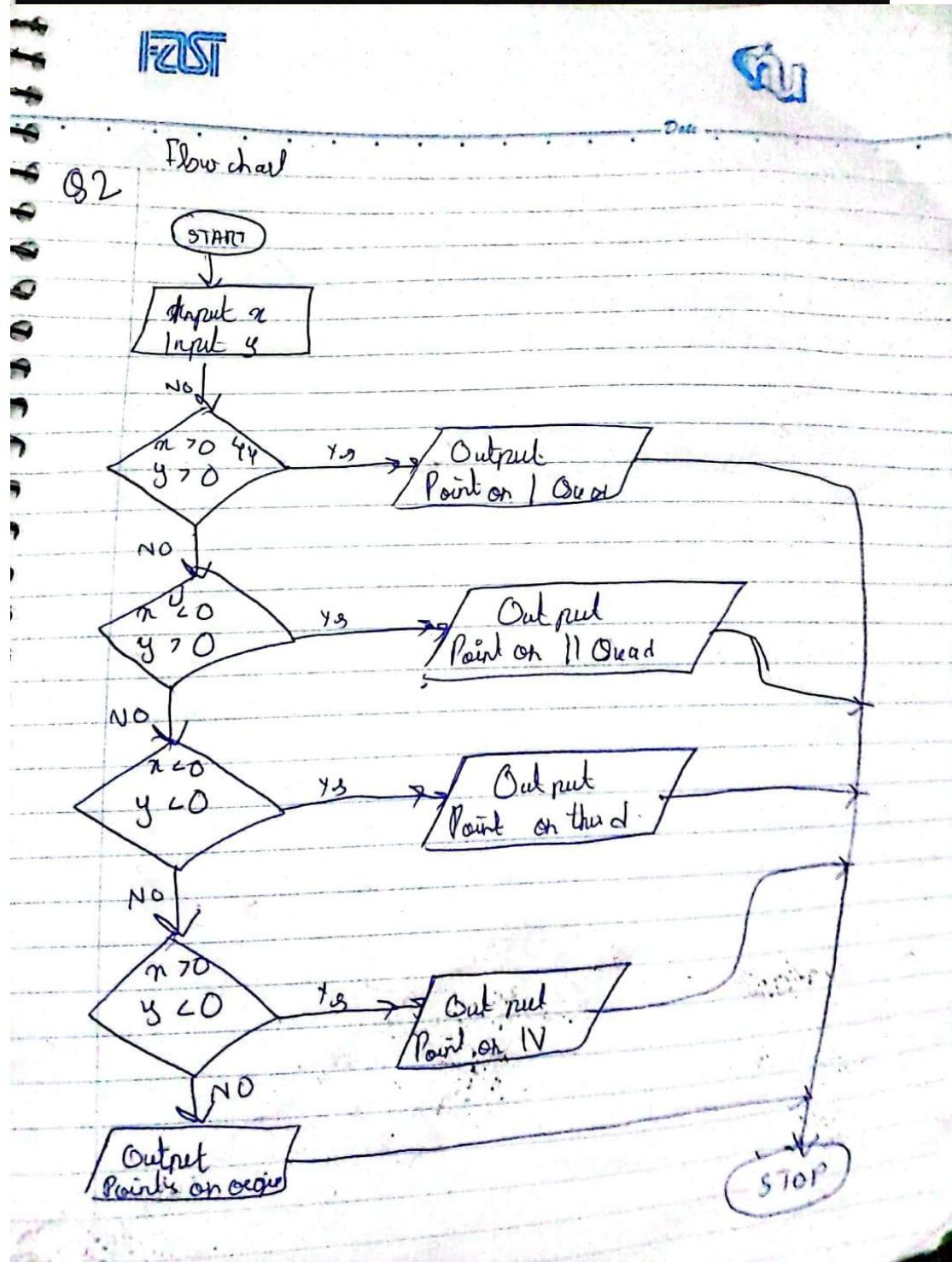
    printf("ENTER THE X AND Y COORDINATES TO DETERMIN WHICH QUADRANTS THEY ARE IN:\n");
    scanf(" %d \n %d",&x_coordinate,&y_coordinate);
    if(x_coordinate>0 && y_coordinate>0){
        printf("The point(%d,%d) lies in quadrant I",x_coordinate,y_coordinate);
    }
    else if(x_coordinate<0 && y_coordinate>0){
        printf("The point(%d,%d) lies in quadrant II",x_coordinate,y_coordinate);
    }
    else if(x_coordinate<0 && y_coordinate<0){
        printf("The point(%d,%d) lies in quadrant III",x_coordinate,y_coordinate);
    }
    else if(x_coordinate>0 && y_coordinate<0){
        printf("The point(%d,%d) lies in quadrant IV",x_coordinate,y_coordinate);
    }
    else if(x_coordinate==0 && y_coordinate==0){
        printf("The point(%d,%d) lies at origin",x_coordinate,y_coordinate);
    }
    else if(x_coordinate==0){
        printf("The point (%d,%d) lies at y axis", x_coordinate,y_coordinate);
    }
    else if(y_coordinate==0){
  
```

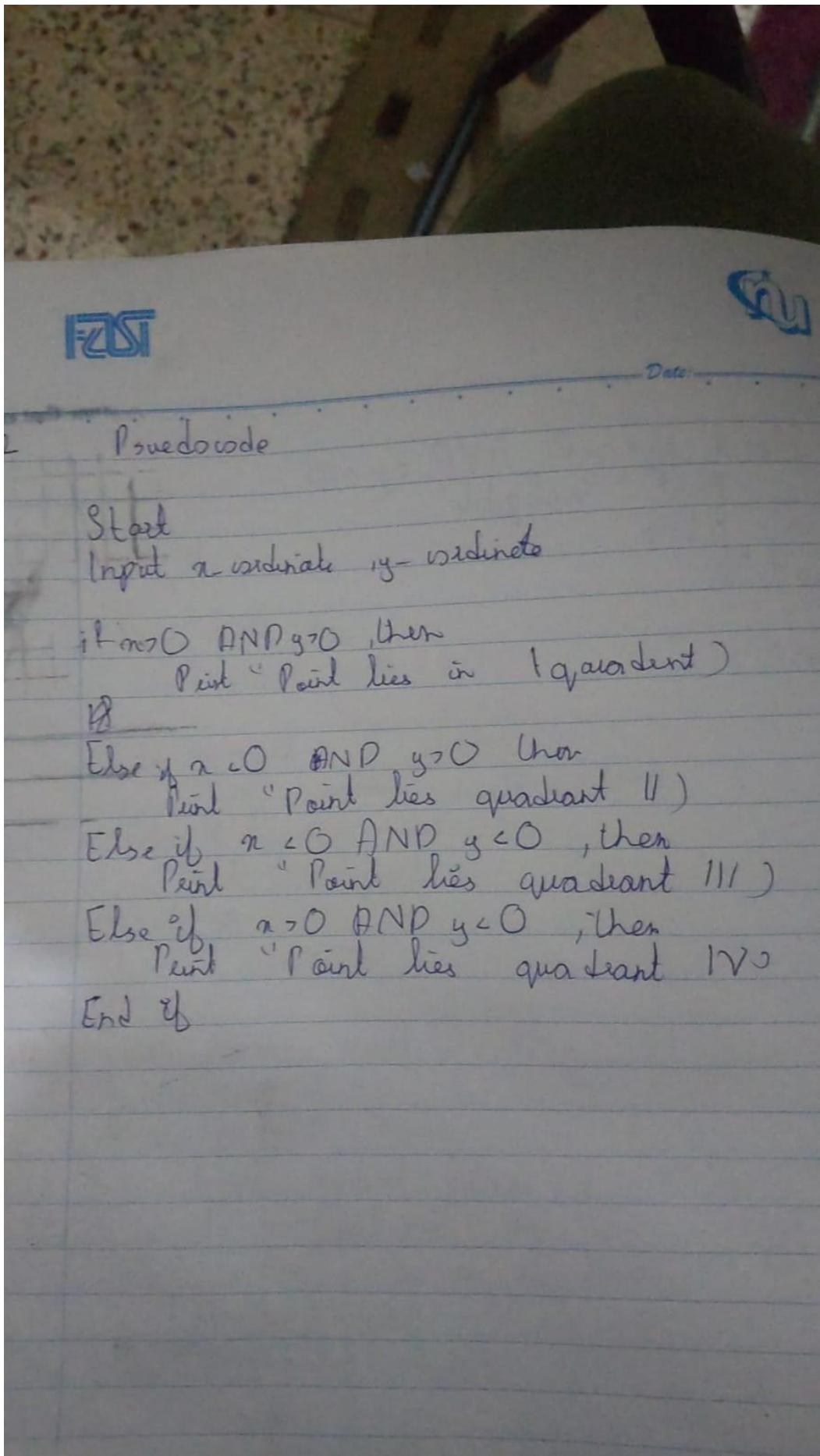
```

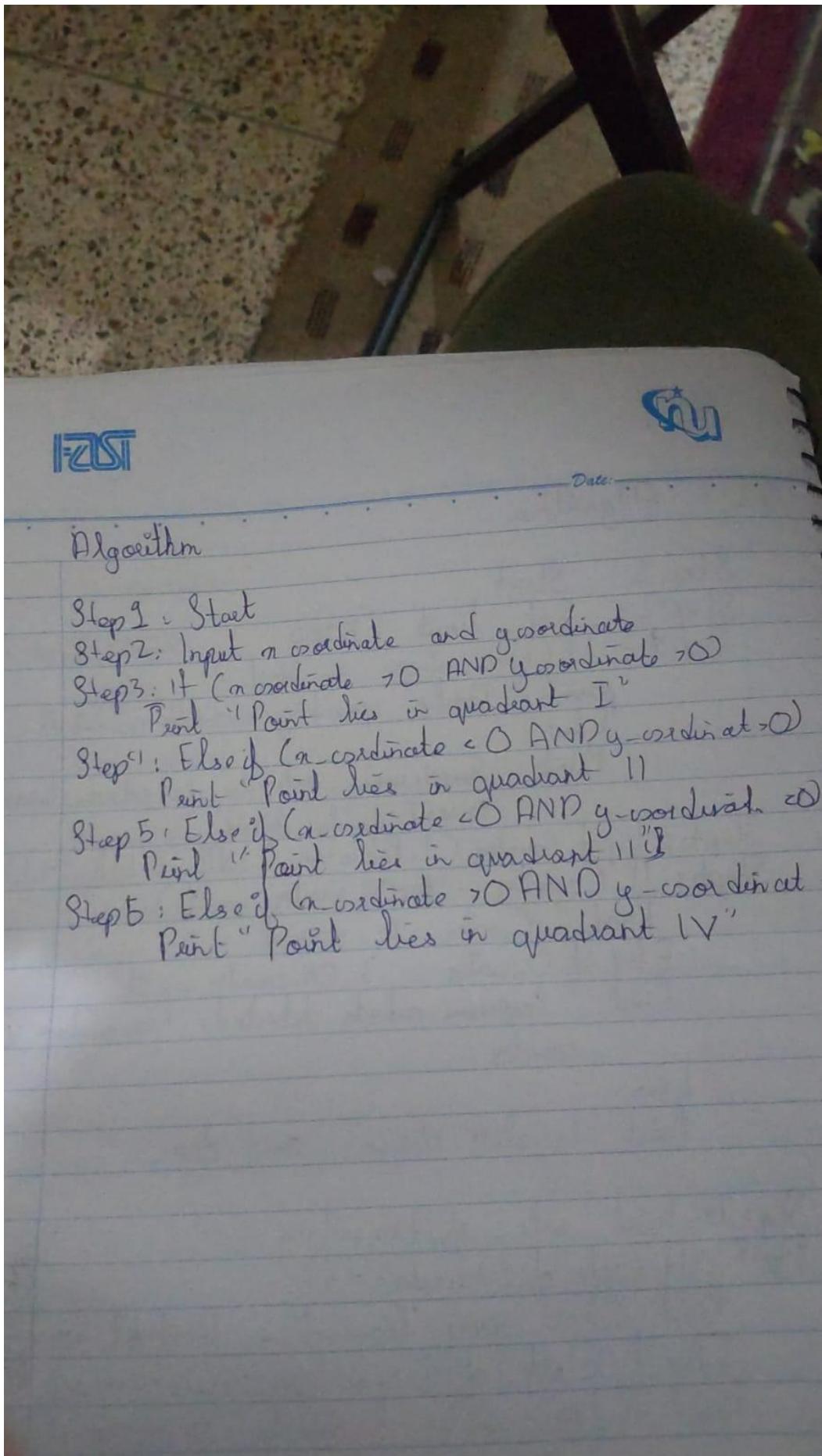
    printf("The point (%d,%d) lies at x axis",x_coordinate,y_coordinate);
}
return 0;
}

ENTER THE X AND Y COORDINATES TO DETERMIN WHICH QUADRANTS THEY ARE IN:
1 -7
The point(1,-7) lies in quadrant IV
Process returned 0 (0x0)   execution time : 9.089 s
Press any key to continue.

```





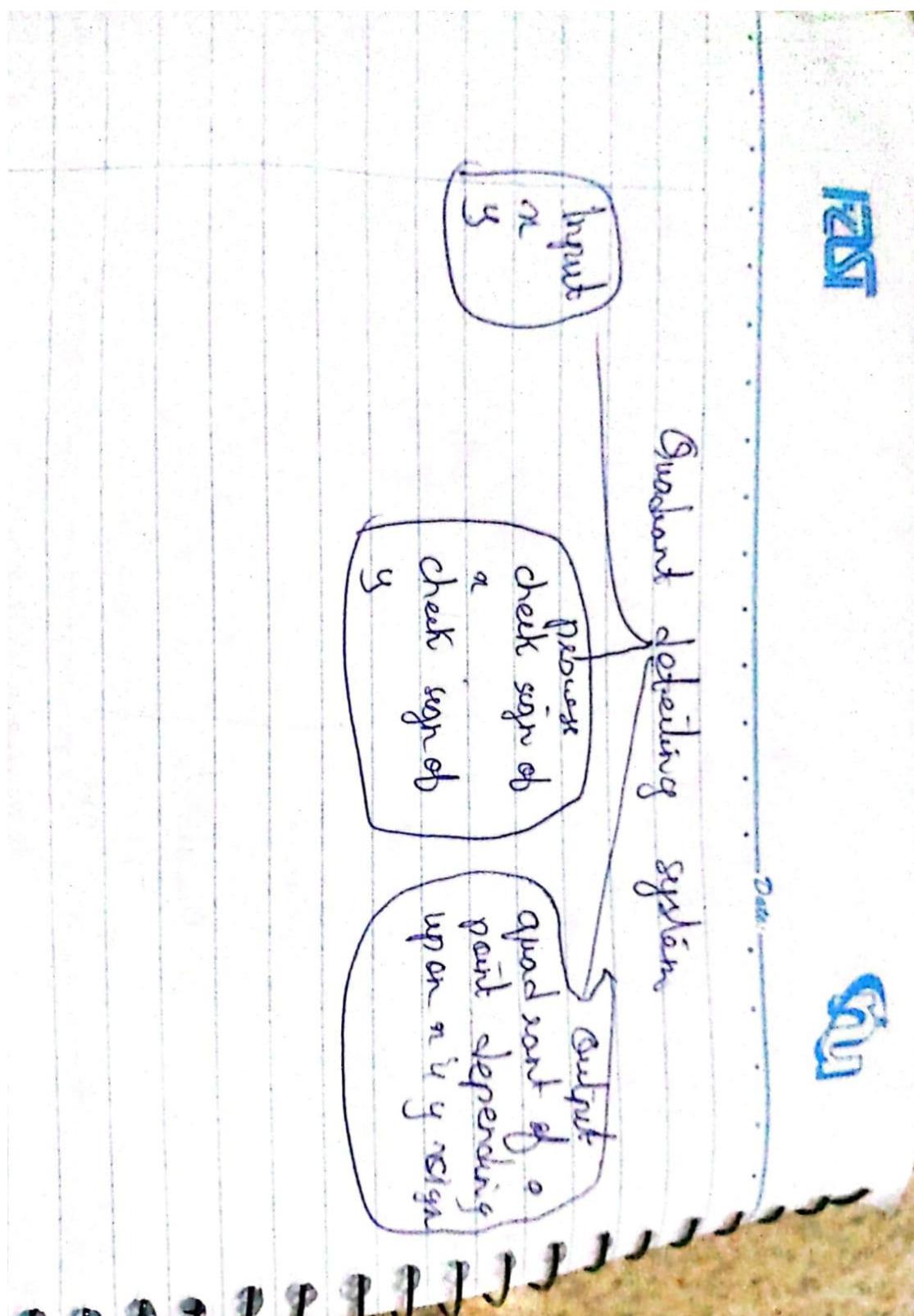


PAC

Given Data	Result
n coordinate y coordinate	Which quadrant a point lies in
<u>Process</u> If $n > 0$ & $y > 0$ then I quadrant If $n < 0$ & $y > 0$ then II quadrant If $n < 0$ & $y < 0$ then III quadrant If $n > 0$ & $y < 0$ then IV quadrant	<u>All quadrants</u> <u>Graphing</u>

IPO

<u>Input</u>	<u>Process</u>	<u>Output</u>
$x$	Read $x$	
$y$	Read $y$ if $x > 0$ & $y > 0$ then I quadrant if $x < 0$ & $y > 0$ then II quadrant if $x < 0$ & $y < 0$ then III quadrant if $x > 0$ & $y < 0$ then IV quadrant	Quadrants of a point



Q03

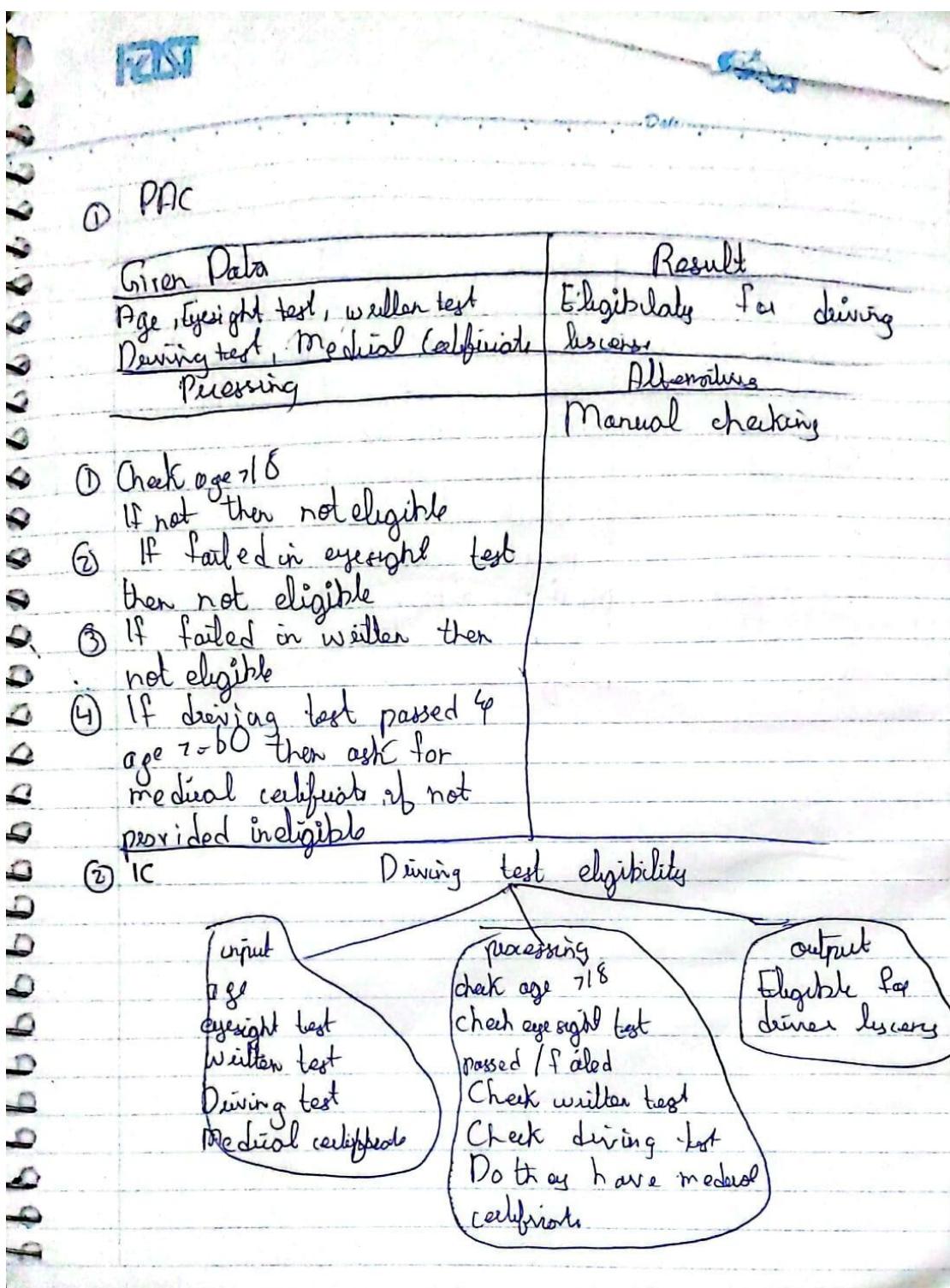
```
#include <stdio.h>
#include <stdlib.h>
```

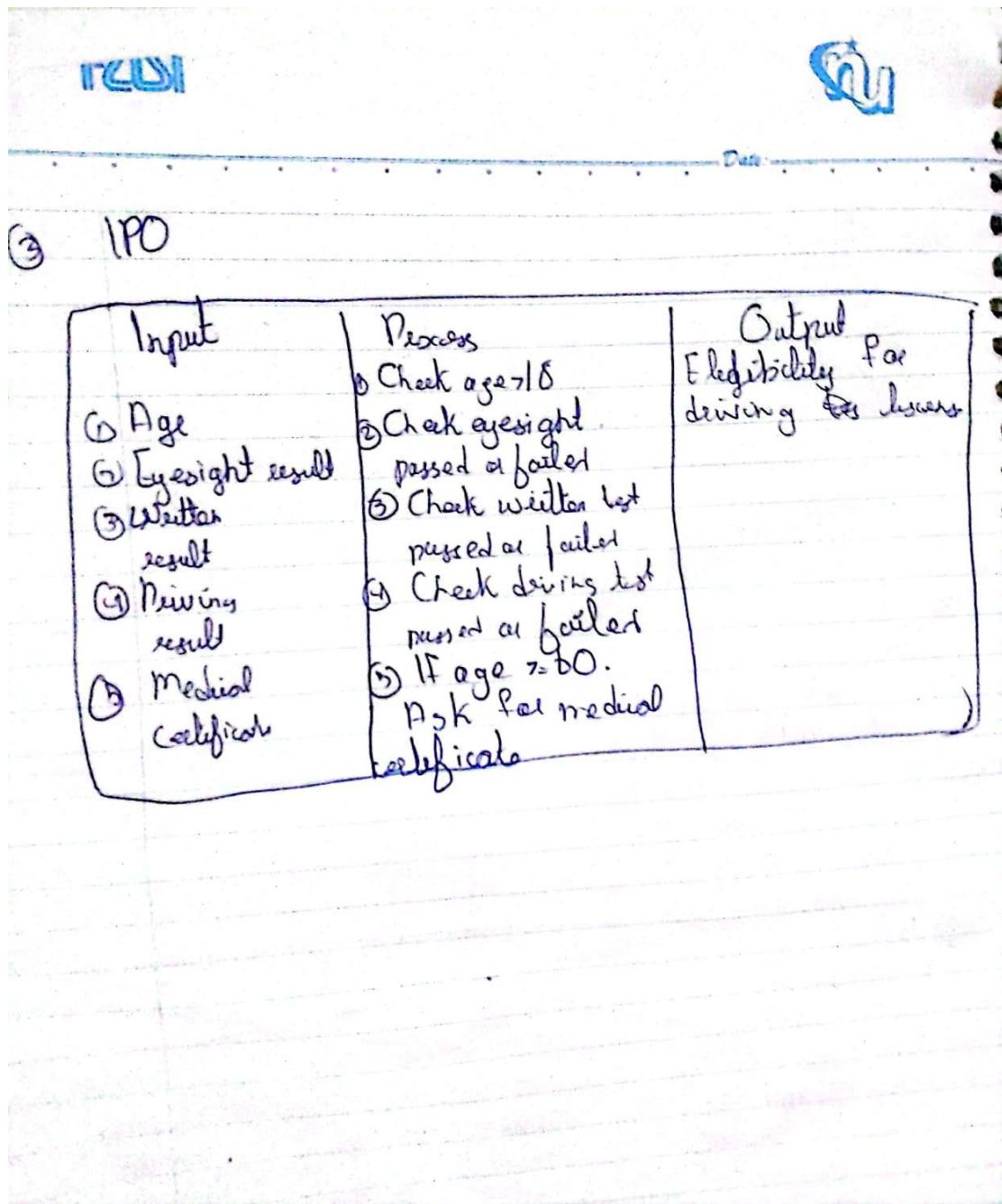
```
int main()
```

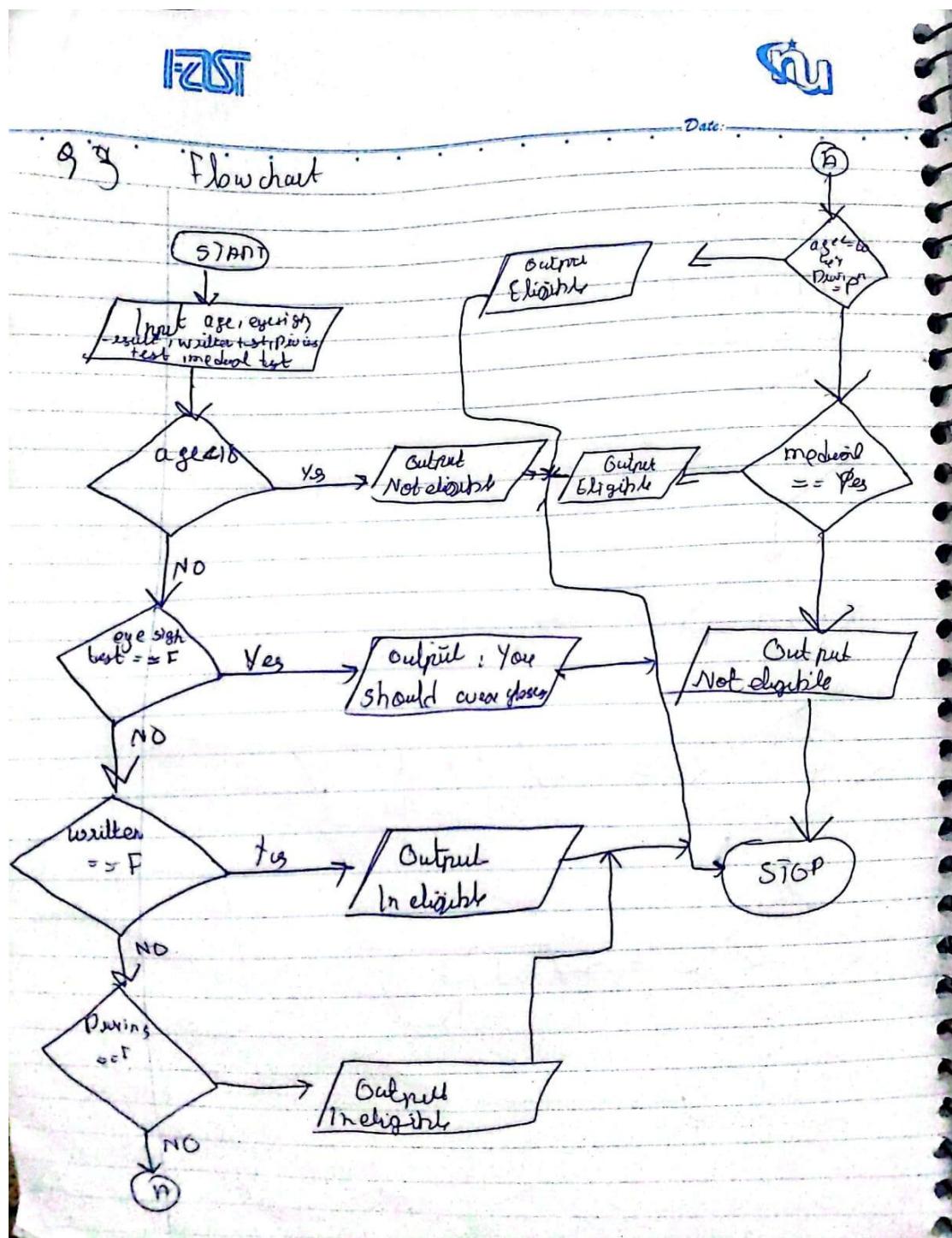
```
{  
    int age;  
    char eye_sight;  
    char wriiten;  
    char driving;  
    char medical;  
    printf("Enter your age:\n");  
    scanf("%d",&age);  
    if(age >=18){  
        printf("Have you passed your eyesight exam(Y/N):\n");  
        scanf(" %c",&eye_sight);  
        if (eye_sight=='Y' || eye_sight=='y'){  
            printf("Have you passed your written exam(Y/N):\n");  
            scanf(" %c",&wriiten);  
        }  
        else if(eye_sight=='N' || eye_sight=='n'){  
            printf("You might need prescription for glasses\n");  
            return 0;  
        }  
        else {  
            printf("Invalid option");  
            return 0;  
        }  
        printf("Did you pass your driving test(Y/N):\n");  
        scanf(" %c",&driving);  
        if (driving=='Y' || driving=='y'){  
            if(age>60){  
                printf("Do you have medical fitness test(Y/N)\n");  
                scanf(" %c",&medical);  
                if (medical=='Y' || medical=='y'){  
                    printf("You are eligible for the license");  
                }  
                else if(medical =='N' || medical=='n'){  
                    printf("You are ineligible");  
                    return 0;  
                }  
                else{  
                    printf("Invalid option");  
                    return 0;  
                }  
            }  
            else if(age>= 18 && age<60){  
                printf("You are eligible for license");  
                return 0;  
            }  
        }  
    }  
    else if (age>=0 && age<18){  
        printf("You are ineligible ");  
    }  
    else{  
        printf("Invalid age");  
        return 0;  
    }  
}
```

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```
[1] "C:\Users\huza\OneDrive\Desktop\PF THEORY ASSIGNMENT\Q03.exe"
Enter your age:
61
Have you passed your eyesight exam(Y/N):
y
Have you passed your written exam(Y/N):
y
Did you pass your driving test(Y/N):
y
Do you have medical fitness test(Y/N)
y
You are eligible for the license
Process returned 0 (0x0)  execution time : 11.172 s
Press any key to continue.
```







**Q3 Pseudo code**

Start

Input age

If age  $\geq 16$  Then

    Input eyesight result (Y/N)

        if eyesight = Y Then

            Input written result (Y/N)

                Else if eyesight = N

                    Print "Ineligible"

                Stop

        End if

    Input driving result (Y/N)

    If driving = Y Then

        if age  $\geq 60$  Then

            Input medical fitness (Y/N)

                If medical = Y Then

                    Print "You are eligible"

                Else if medical = N

                    Print "Ineligible"

                Stop

            Else if age  $\geq 18$  and age  $< 60$

                Print "Eligible"

                Stop

        End if

    End if

End if

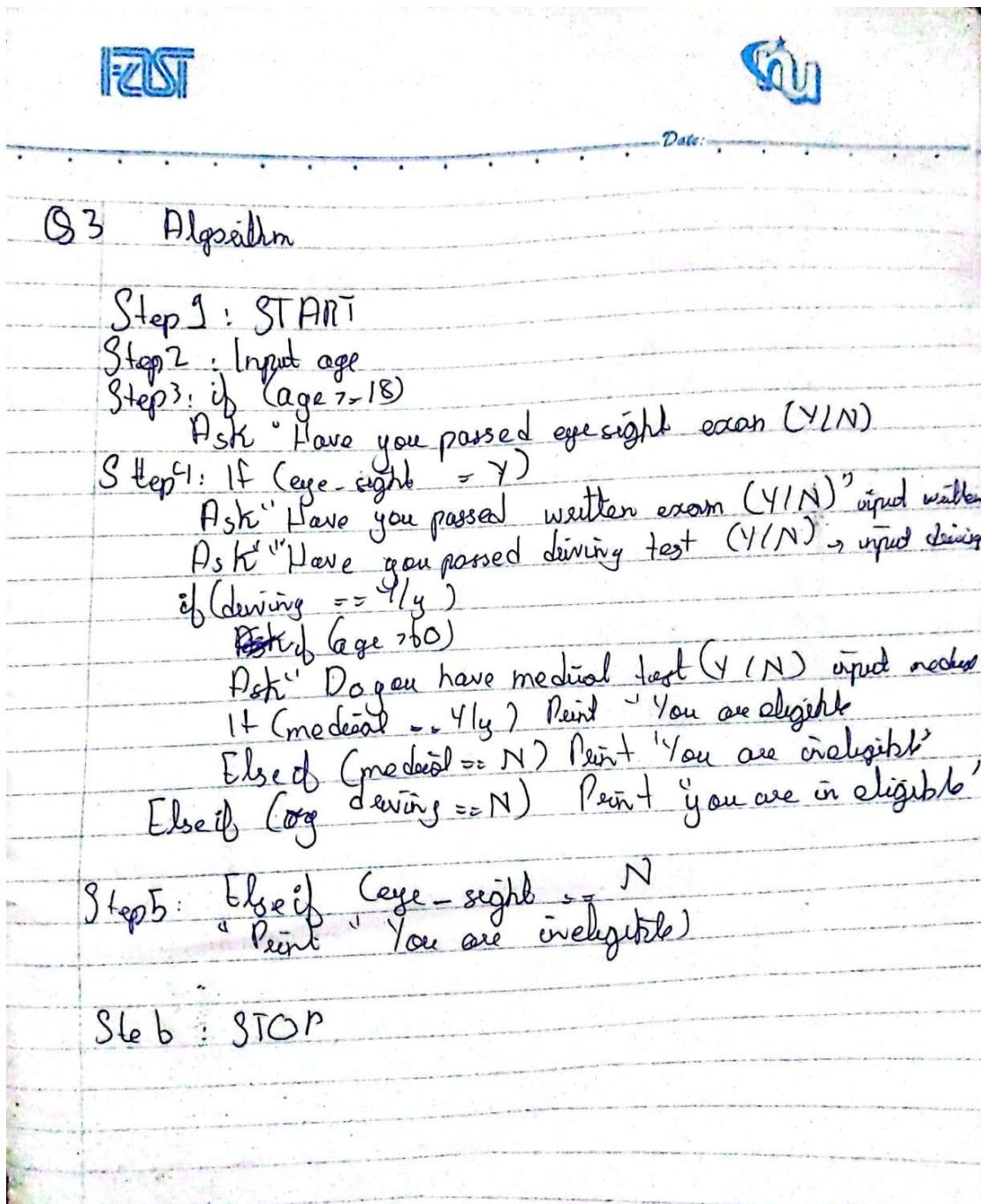
I-ZEST



Date: \_\_\_\_\_

Else if age >= 0 AND age < 18  
Print "Ineligible"  
Else  
End If

End



## Q04

```
#include <stdio.h>
```

```
int main() {
    int a, b, c, d, e;

    printf("Enter 5 cards (1-13): ");
    scanf("%d %d %d %d %d", &a, &b, &c, &d, &e);

    if ((a==b && b==c && c==d) ||
        (a==b && b==d && c==e) ||
        (a==b && b==e && c==d) ||
        (a==c && c==d && b==e) ||
```

```

(a==c && c==e && b==d) ||
(a==d && d==e && b==c) ||
(b==c && c==d && a==e) ||
(b==c && c==e && a==d) ||
(b==d && d==e && a==c) ||
(c==d && d==e && a==b))

{
    printf("Full House\n");
} else {
    printf("Not Full House\n");
}

return 0;
}

```

Enter 5 cards (1-13): 1 1 1 2 2  
Full House

**Q4**      **Algorithm**

Step 1: Start

Step 2: Input 5 integers  $a, b, c, d, e$  (between 1 to 13)

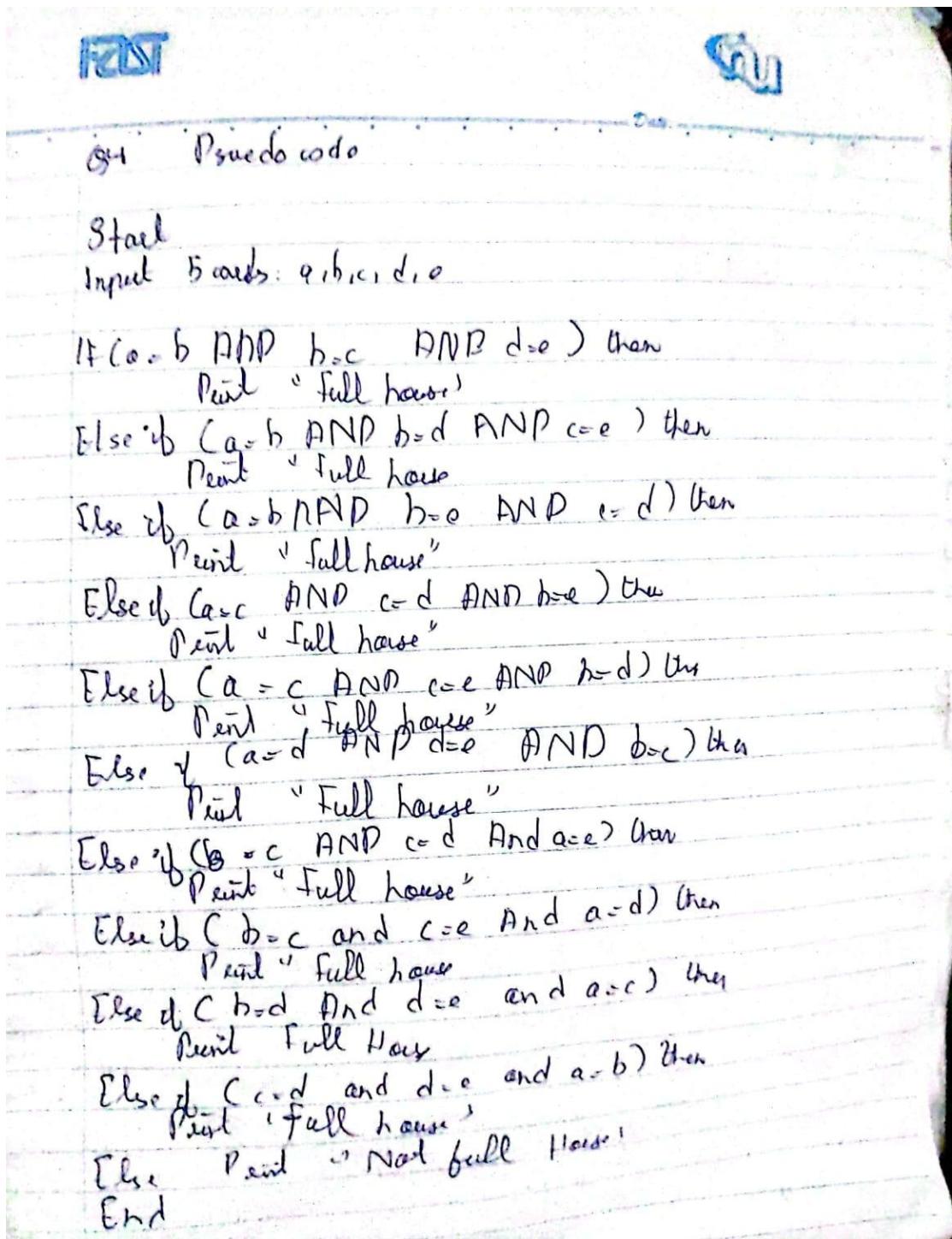
Step 3: Check

- if ( $a == b$  AND  $b == c$  AND  $d == e$ )
- OR ( $a == b$  AND  $b == d$  AND  $c == e$ )
- OR ( $a == b$  AND  $b == e$  AND  $c == d$ )
- OR ( $a == c$  AND  $c == d$  AND  $b == e$ )
- OR ( $a == c$  AND  $c == e$  AND  $b == d$ )
- OR ( $a == d$  AND  $d == e$  AND  $b == c$ )
- OR ( $b == c$  AND  $c == d$  AND  $a == e$ )
- OR ( $b == c$  AND  $c == e$  AND  $a == d$ )
- OR ( $b == d$  AND  $d == e$  AND  $a == c$ )
- OR ( $c == d$  AND  $d == e$  AND  $a == b$ )

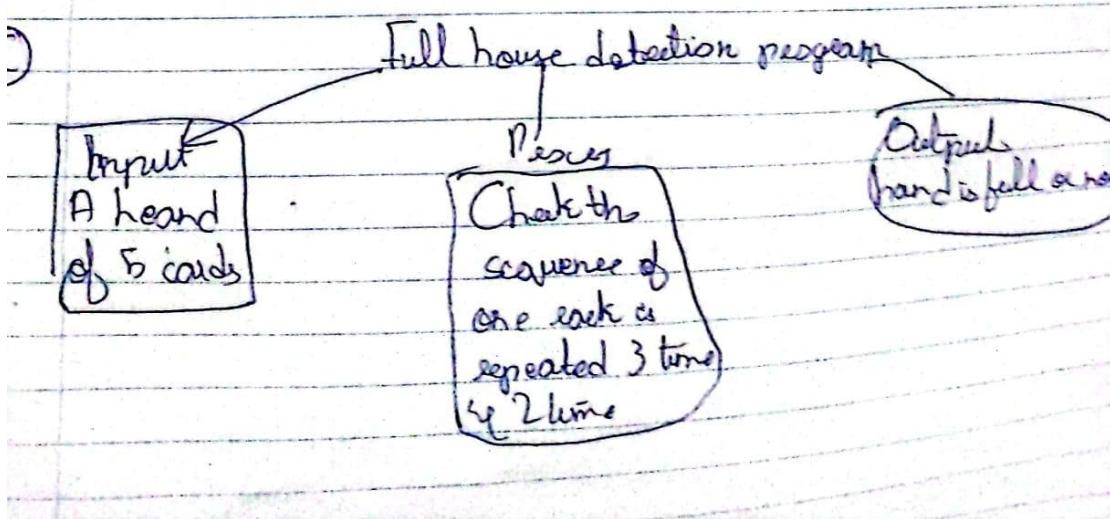
Step 4: If any condition true Print "full house"

Step 5: Else → Print "Not full house"

Step 6 = Stop



Q 4	
① PAC	
Given Data A poker hand consists of 5 cards in a sequence of integers Process check the sequences if one rank is repeated 3 times And another is repeated 2 times	Result Hand full or not Alternative Manual Checking



The diagram illustrates the Information Flow Diagram (IPO) model:

- Input:** Hand of 5 cards
- Process:** Count the repetition of each integer & match it according to its rank.  
If there is 3 repitition of one rank & 2 repitition from any other rank the hand is full.
- Output:** Full house or not

## Q06

```
#include <stdio.h>

int main() {
    int counter[] = {0,0,0,0,0,0,0,0,0}; //variables
    int num;

    printf("Enter a number 0-9 range:\n");

    while (scanf("%d", &num) == 1) { //If the number is not in 0-9 range the loop will break
        if (num < 0 || num > 9) {
            break;
        }
        counter[num]++;
        printf("Enter a number that is out of (0-9) range to stop.\n");
    }
}
```

```
printf("\nNumber\tNumber of Occurrences\n"); //output
for (int i = 0; i < 10; i++) {
    printf("%d\t%d\n", i, counter[i]);
}

return 0;
}
```

## Q05

IPO		
Input	Process	Output
Number from user (0-9)	Increment count of inputted number in array	Display the number and how many times it has been entered
Given Dg Number from user (0-9)	Processing Increment count of inputted numbers in array	Output Display number and how many they have been inputted Alternatives Count them manual

## Q07

```
#include <stdio.h>
int main(){

    int value;
```

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```
printf("Please enter a value in the range 1...7:");
scanf("%d", &value);
//Translate number into its English word
if (value == 1)
{
    printf("Monday\n");
}
else if (value == 2)
{
    printf("Tuesday\n");
}
else if (value == 3)
{
    printf("Wednesday\n");
}
else if (value == 4)
{
    printf("Thursday\n");
}
else if (value == 5)
{
    printf("Friday\n");
}
else if (value == 6)
{
    printf("Saturday\n");
}
else if (value == 7)
{
    printf("Sunday\n");
}
else
{
    printf("You entered a value out of range\n");
}
return 0;
}
```

```
Please enter a value in the range 1...7:
Sunday
```

```
Process returned 0 (0x0)  execution time : 4.192 s
Press any key to continue.
```

## By Using Switch cases

```
#include <stdio.h>
int main(){

    int value;
    printf("Please enter a value in the range 1...7:");
    scanf("%d", &value);
    //Translate number into its English word
    switch (value)
    {

        case 1:
            printf("Monday\n");

        case 2:
            printf("Tuesday\n");
    }
}
```

case 3:

```
printf("Wednesday\n");
```

case 4:

```
printf("Thursday\n");
```

case 5:

```
printf("Friday\n");
```

case 6:

```
printf("Saturday\n");
```

case 7:

```
printf("Sunday\n");
```

default:

```
    printf("You entered a value out of range\n");
```

```
}
```

```
return 0;
```

```
}
```

Please enter a value in the range 1...7:7  
Sunday

```
Process returned 0 (0x0) execution time : 4.192 s  
Press any key to continue.
```

Q08

Step		Condition	Result	Action
0		-	-	-
Step	Condition	Result	Action	
1	$i = 3$	False	Enter Ele	
2	$j > k \rightarrow j > 5$	True	Break Block	
3	-	-	$i = 9$	
4	End of loop	-	Print ijk	
5	-	-	1 1 5	
6	$i < j & j < 5$	False	Enter Ele	
7	$j > k \rightarrow j > 3$	True	Break Block	
8	-	-	$i = 9$	
9	End of loop	-	Print ijk	
10	-	-	1 1 5	
11	-	-	1 1 5	
12	-	-	1 1 5	
13	-	-	1 1 5	
14	-	-	1 1 5	
15	-	-	1 1 5	
16	-	-	1 1 5	
17	-	-	1 1 5	
18	-	-	1 1 5	
19	-	-	1 1 5	
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Step	Action	Condition	Result	Action
0	-	-	-	-
1	False	$i \leq j \rightarrow 5 < 3$	False	$j = k \rightarrow 3 = 3$
2	True	$j < k \rightarrow 3 < 2$	True	$i = j \rightarrow 3 = 3$
3	False	$i = k \rightarrow 3 = 3$	False	$j = k \rightarrow 3 = 3$
4	End of else	-	-	-

d)

Step	Action	Condition	Result	Action
0	-	-	-	-
1	True	$i \leq j \rightarrow 3 \leq 5$	True	$i = j \rightarrow 3 = 3$
2	True	$j < k \rightarrow 3 < 2$	True	$i = j \rightarrow 3 = 3$
3	False	$i = k \rightarrow 3 = 3$	False	$j = k \rightarrow 3 = 3$
4	End of else	-	-	-

(a)

Step	Action	Condition	Result	Action
0	-	-	-	-
1	True	$i \leq j \rightarrow 3 \leq 5$	True	$i = j \rightarrow 3 = 3$
2	True	$j < k \rightarrow 3 < 2$	True	$i = j \rightarrow 3 = 3$
3	False	$i = k \rightarrow 3 = 3$	False	$j = k \rightarrow 3 = 3$
4	End of else	-	-	-

