

```

#include <stdio.h>
#include <conio.h>
/* Program of Arithmetic operator */

int main()
{
    int x = 100;
    int y = 20;
    int z, s, m, mod, d;
    clrscr();
    z = x + y;
    printf("Sum of x & y is %d", z);
    s = x - y;
    printf("\nSubtraction of x & y is %d", s);
    m = x * y;
    printf("\nmultiply of x & y is %d", m);
    mod = x % y;
    printf("\nmod of x & y is %d", mod);
    d = x / y;
    printf("\ndivide of x & y is %d", d);
    getch();
    return 0;
}

```

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Output

$x > y$       0

$x < y$       1

$x \geq y$       0

$x \leq y$       1

$x = y$       0

$x \neq y$       1

## /\* Relational operators program \*/

```
#include <Stdio.h>
```

```
#include <Conio.h>
```

```
int main()
```

```
{
```

```
int x = 10;
```

```
int y = 20;
```

```
clrscr(); // clear screen
```

```
printf("x > y %d", (x > y));
```

```
printf("\n x < y %d", (x < y));
```

```
printf("\n x >= y %d", (x >= y));
```

```
printf("\n x <= y %d", (x <= y));
```

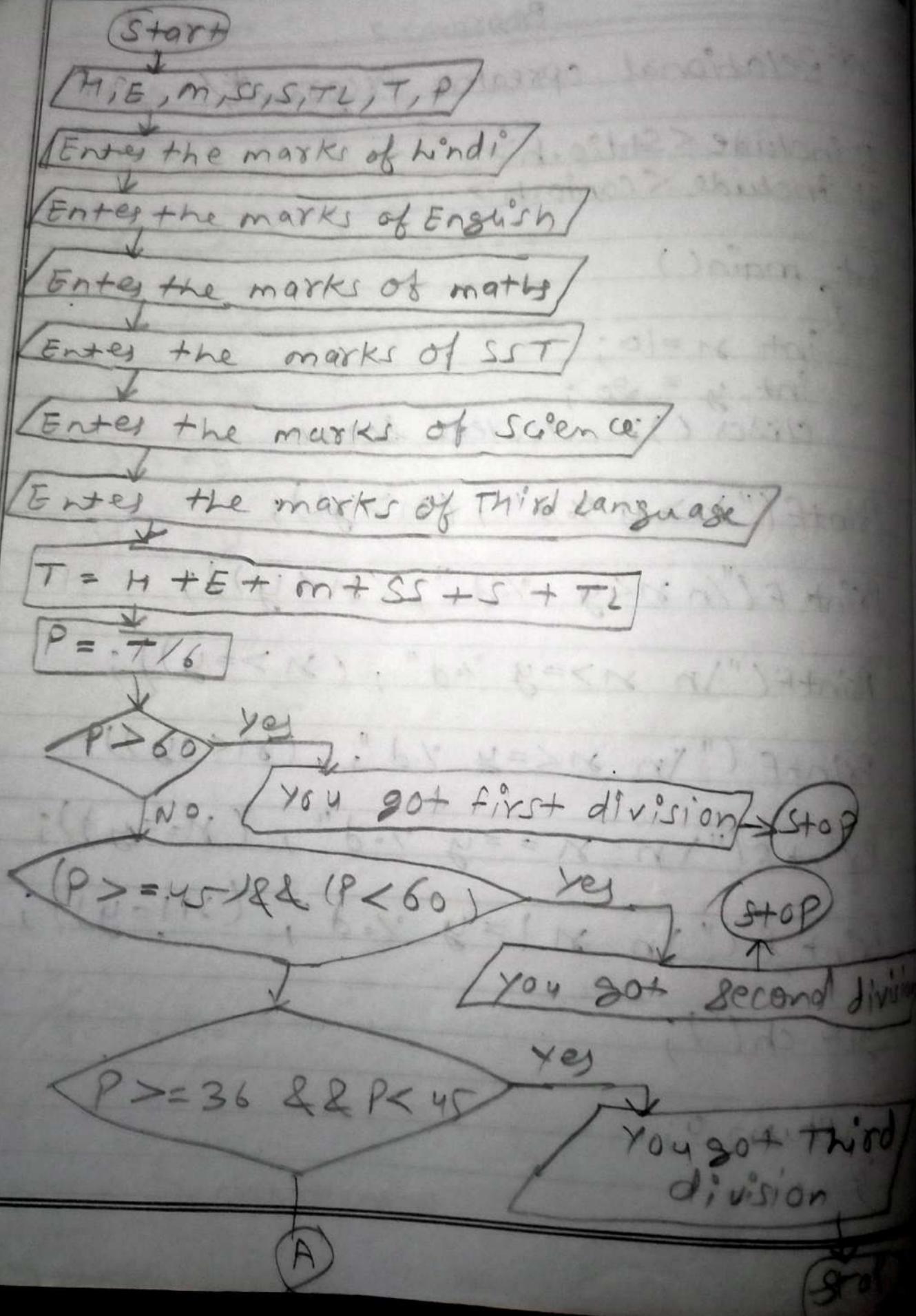
```
printf("\n x == y %d", (x == y));
```

```
printf("\n x != y %d", (x != y));
```

```
getch();
```

```
return 0;
```

```
}
```



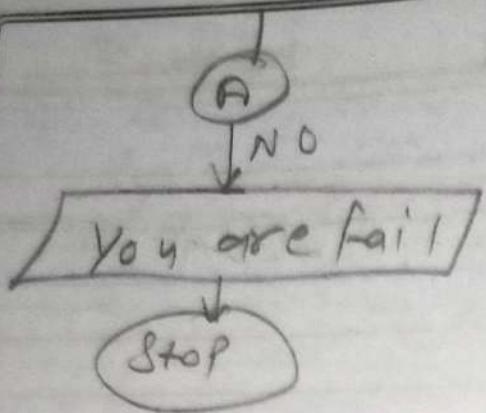
## //marksheet Program

```

#include <stdio.h>
#include <conio.h>
int main()
{
    int H, E, M, SS, S, TL, T, P;
    clrscr();
    printf("Enter the marks of Hindi ");
    scanf("%d", &H);
    printf("Enter the marks of English ");
    scanf("%d", &E);
    printf("Enter the marks of maths ");
    scanf("%d", &M);
    printf("Enter the marks of SST ");
    scanf("%d", &SS);
    printf("Enter the marks of Science ");
    scanf("%d", &Science);
    printf("\nEnter the marks of Third
language ");
    scanf("%d", &TL);
    T = H + E + M + SS + S + TL;
    P = T / 6;
    if (P > 60)
    {
        printf("you got first division");
    }
}

```

Teacher's Signature: \_\_\_\_\_



⇒ Output

Enter the marks of Hindi

```
if ((P >= 45) && (P < 60))
```

```
{ printf ("you got Second Best division"); }
```

```
if ((P >= 36) && (P < 45))
```

```
{ printf ("you got Third division"); }
```

```
if (P < 36) else
```

```
{ printf ("you are fail"); }
```

```
}
```

```
getch();
```

```
return 0;
```

```
}
```

Bitwise And 5

Bitwise OR 7

Bitwise XOR 2

Bitwise Left Shift 20

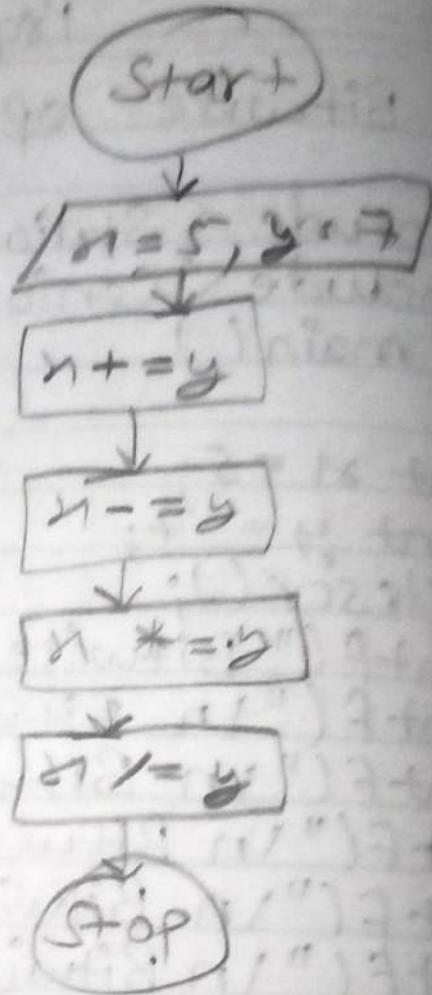
Bitwise Right Shift 1

Bitwise One's Complement -6

/\* Bitwise operator program \*/

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int x1 = 5;
    int y = 7;
    clrscr();
    printf("In Bitwise And %d", (x1 & y));
    printf("In Bitwise OR %d", (x1 | y));
    printf("In Bitwise XOR %d", (x1 ^ y));
    printf("In Bitwise Left Shift %d", (x1 << 2));
    printf("In Bitwise right Shift %d", (x1 >> 2));
    printf("In Bitwise one's complement %d", (~x1));
    getch();
    return 0;
}
```

$x_1 + = y$	12
$x_1 - = y$	-2
$x_1 * = y$	35
$x_1 / = y$	0



/\* Assignment operator \*/

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int x=5;
    int y=7;
    clrscr();
    printf("x+=y %d", (x+=y));
    printf("\n x-=y %d", (x-=y));
    printf("\n x*=y %d", (x*y));
    printf("\n x/=y %d", (x/y));
}
```

```
getch();
return 0;
}
```

Teacher's Signature: \_\_\_\_\_

Enter a year

Start

Input years

Year  $y \cdot 4 == 0$  No / Not a leap Year

Yes

Year  $y \cdot 100 == 0$  No / It is a leap Year

Yes

Year  $y \cdot 400 == 0$  No / Not a leap Year

Yes

It is a leap Year

Stop

## Program - 6

Date \_\_\_\_\_

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// leap year program

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

int main()
{
    int Year;
    printf("Enter A year");
    scanf("%d", &Year);
    if (Year % 4 == 0)
    {
        if (Year % 100 == 0)
        {
            if (Year % 400 == 0)
                printf("It is a leap year");
            else
                printf("Not a leap year");
        }
        else
            printf("It is a leap year");
    }
}
```

Teacher's Signature: \_\_\_\_\_

```
else
{
    printf("It is not a leap year");
}
getch();
return 0;
}
```

Enter number 1:

Start

Enter number 1:

Enter number 2:

$x1 == y$

Yes

$x1 & y$  are equal

No

$x1 & y$  are  
not equal

Stop

Stop

## Program- 7

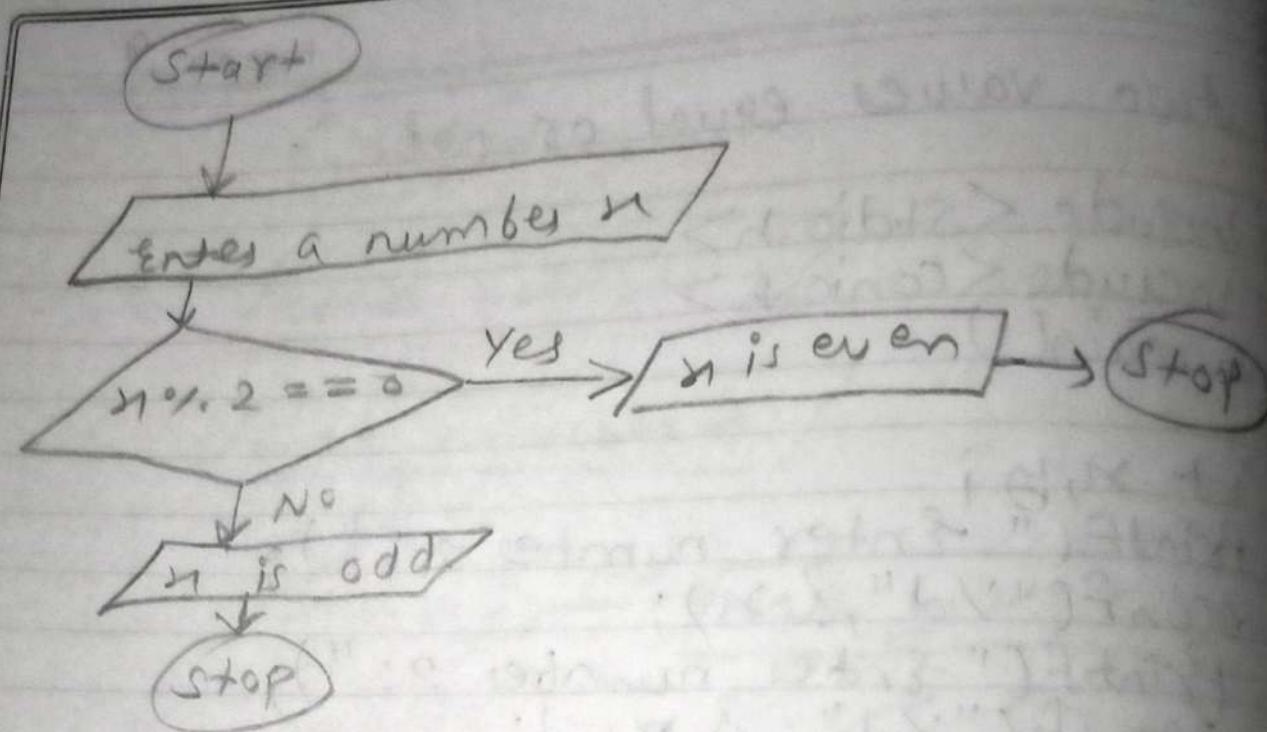
Date \_\_\_\_\_

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11 two values equal or not

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int x, y;
    printf("Enter number 1 : ");
    scanf("%d", &x);
    printf("Enter number 2 : ");
    scanf("%d", &y);
    if (x == y)
    {
        printf("%d & %d are equal");
    }
    else
    {
        printf("%d & %d are not equal");
    }
    getch();
    return 0;
}
```



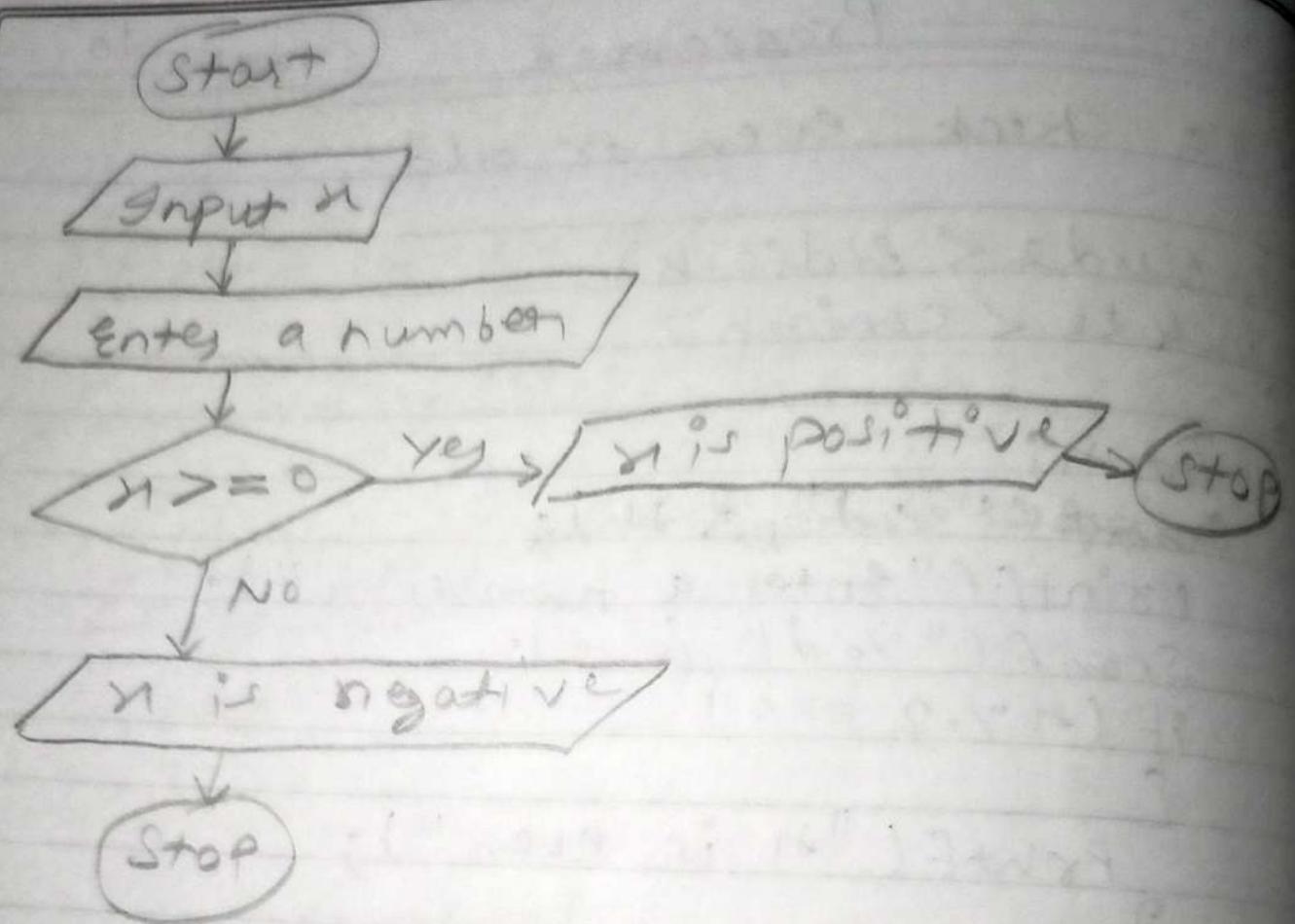
$\Rightarrow$  output

Enters a number  $n$

// To check even or odd

```
#include < stdio.h>
#include < conio.h>
{
    int n;
    printf("Enter a number n");
    scanf("%d", &n);
    if (n % 2 == 0)
    {
        printf("n is even");
    }
    else
    {
        printf("n is odd");
    }
    return 0;
}
```

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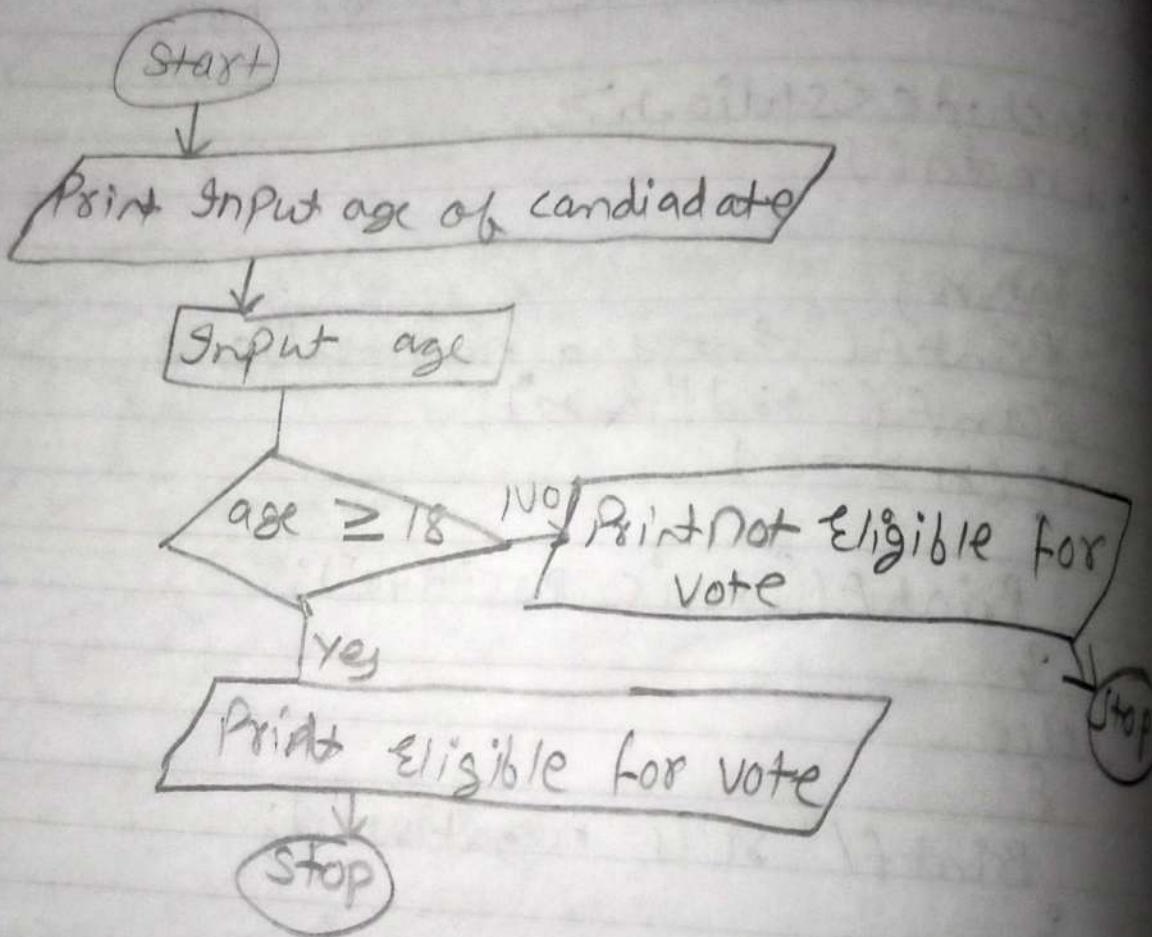
→ output

Enter a number

// To check n is positive or not

```
#include<stdio.h>
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d",&n);
    if(n >= 0)
    {
        printf("n is positive");
    }
    else
    {
        printf("n is negative");
    }
    return 0;
}
```

## Flowchart



Output

Input age of candidate

// Eligible For vote

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

```
int main()
```

```
{
```

```
    int age;
```

```
    printf("Input age of candidate");
```

```
    scanf("%d" & age);
```

```
    if (age >= 18)
```

```
{
```

```
        printf("Eligible For vote");
```

```
}
```

```
else
```

```
{
```

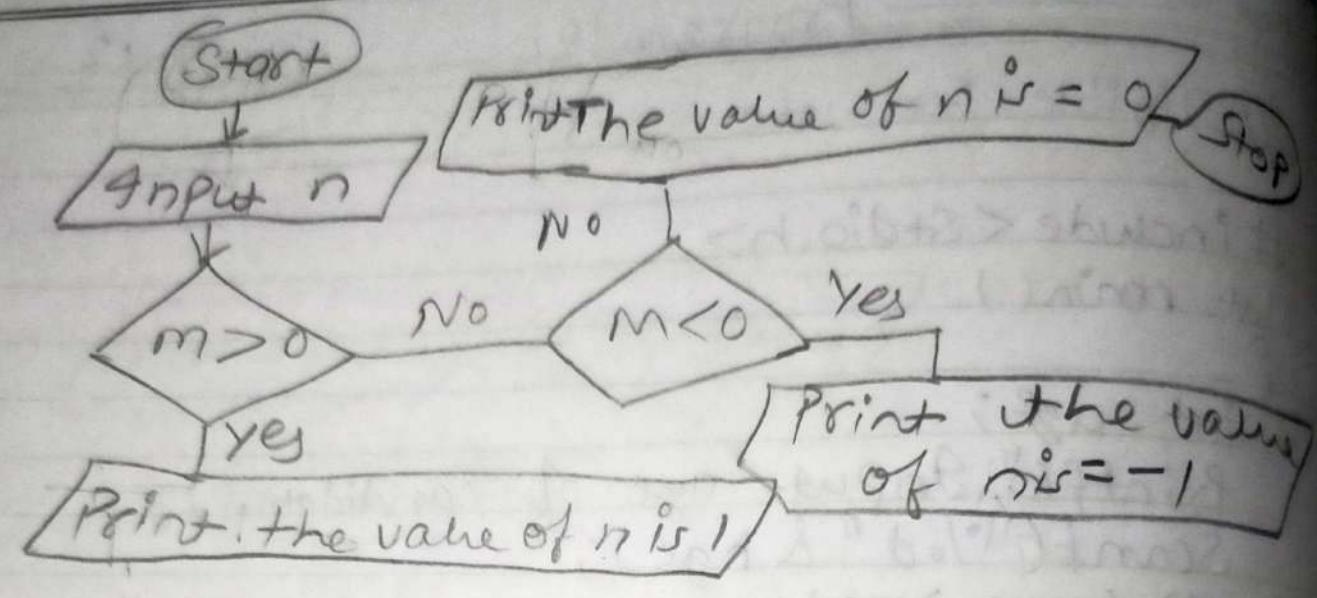
```
    printf("not Eligible For vote");
```

```
}
```

```
return 0;
```

```
}
```

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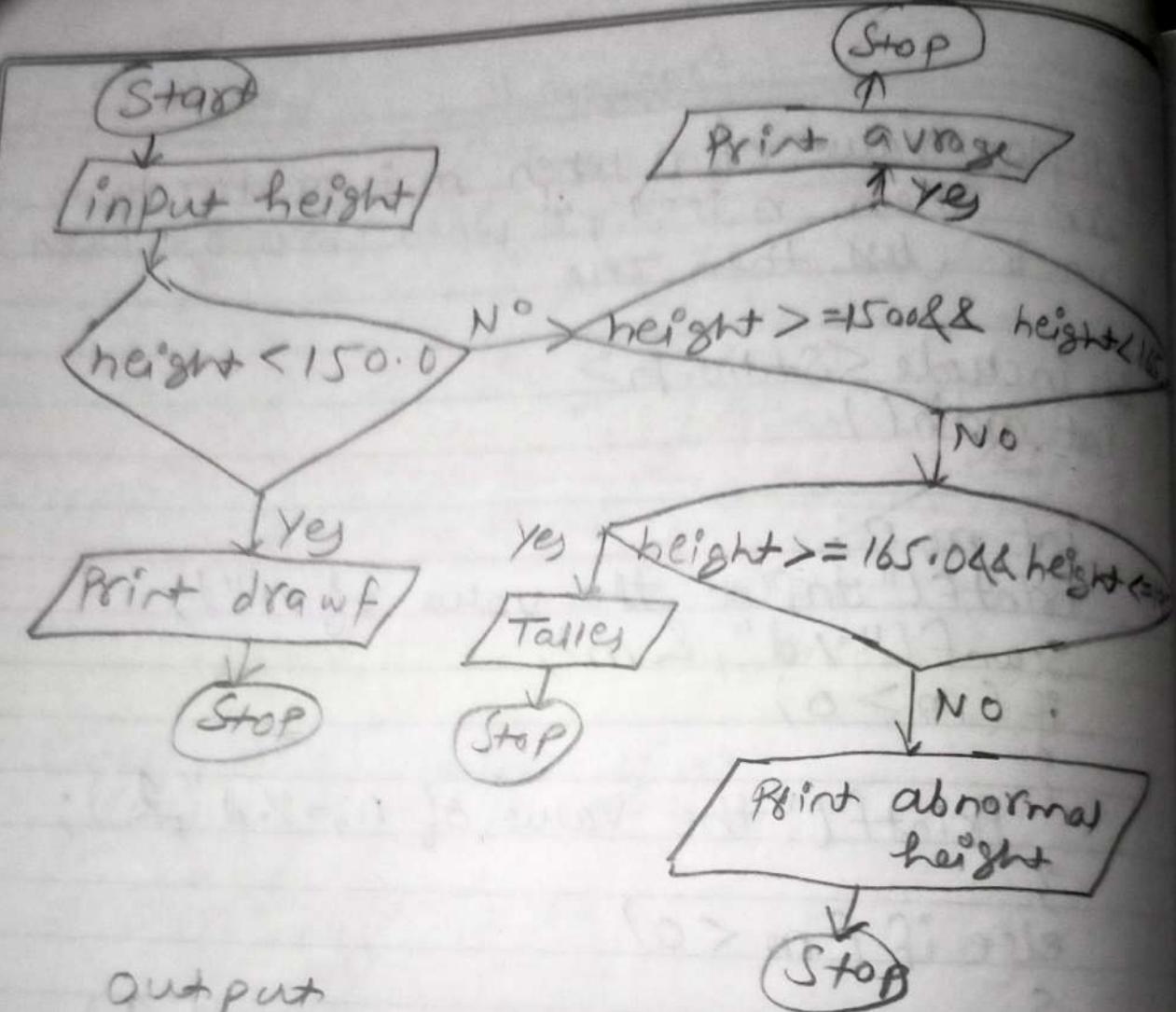


output

Input The value of n

//display value of n when m is greater than zero Then n is 1, 0 when m is 0,-1 when m is less than zero

```
#include <stdio.h>
int main()
{
    int m, n;
    printf("Input the value of m");
    scanf("%d", &m);
    if (m > 0)
    {
        printf("the value of n=%d", 1);
    }
    else if (m < 0)
    {
        printf("the value of n=%d", -1);
    }
    else
    {
        printf("The value of n=%d" 0 );
    }
    return 0;
}
```



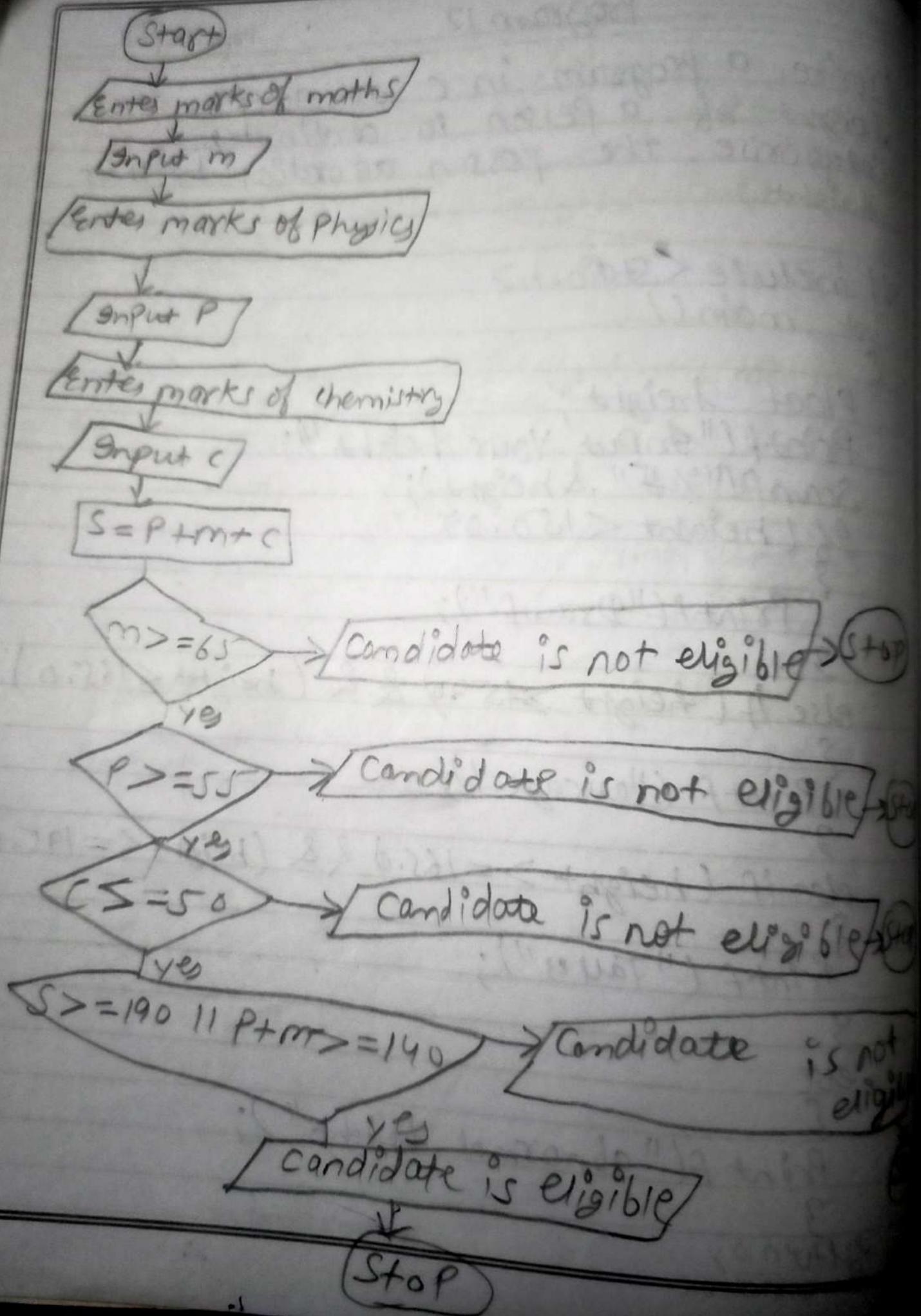
Output

Input your height

//write a program in c to accept the height of a person in centimeter & categorise the person according to their height

```
#include <stdio.h>
int main()
{
    float height;
    printf("Input Your height");
    scanf("%f", &height);
    if (height < 150.0)
    {
        printf("Drawf");
    }
    else if (height >= 150.0) && (height < 165.0)
    {
        printf ("Average");
    }
    else if (height >= 165.0) && (height <= 195.0)
    {
        printf ("Taller");
    }
    else
    {
        printf ("abnormal height");
    }
    return 0;
}
```

Teacher's Signature: \_\_\_\_\_



## Program 13

// write a C program to find the eligibility of admission for a professional course

eligibility criteria: marks in maths  $\geq 65$ ;  
 Physics  $\geq 55$ , Chemistry  $\geq 50$ , Total  $\geq 190$   
 or Maths + Physics  $\geq 140$

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

```
int main()
```

```
{
```

```
    int m, P, C;
```

```
    printf("Enter the marks of Maths");
```

```
    scanf("%d", &m);
```

```
    printf("Enter the marks of Physics");
```

```
    scanf("%d", &P);
```

```
    printf("Enter the marks of Chemistry");
```

```
    scanf("%d", &C);
```

```
S = P + m + C;
```

```
If (m  $\geq 65$ )
```

```
    If (P  $\geq 55$ )
```

```
        If (C  $\geq 50$ )
```

```
            If (S  $\geq 190$  || P + m  $\geq 140$ )
```

```
                printf("Candidate is eligible");
```

```
            Else
```

```
                printf("Candidate is not eligible");
```

```
        Else
```

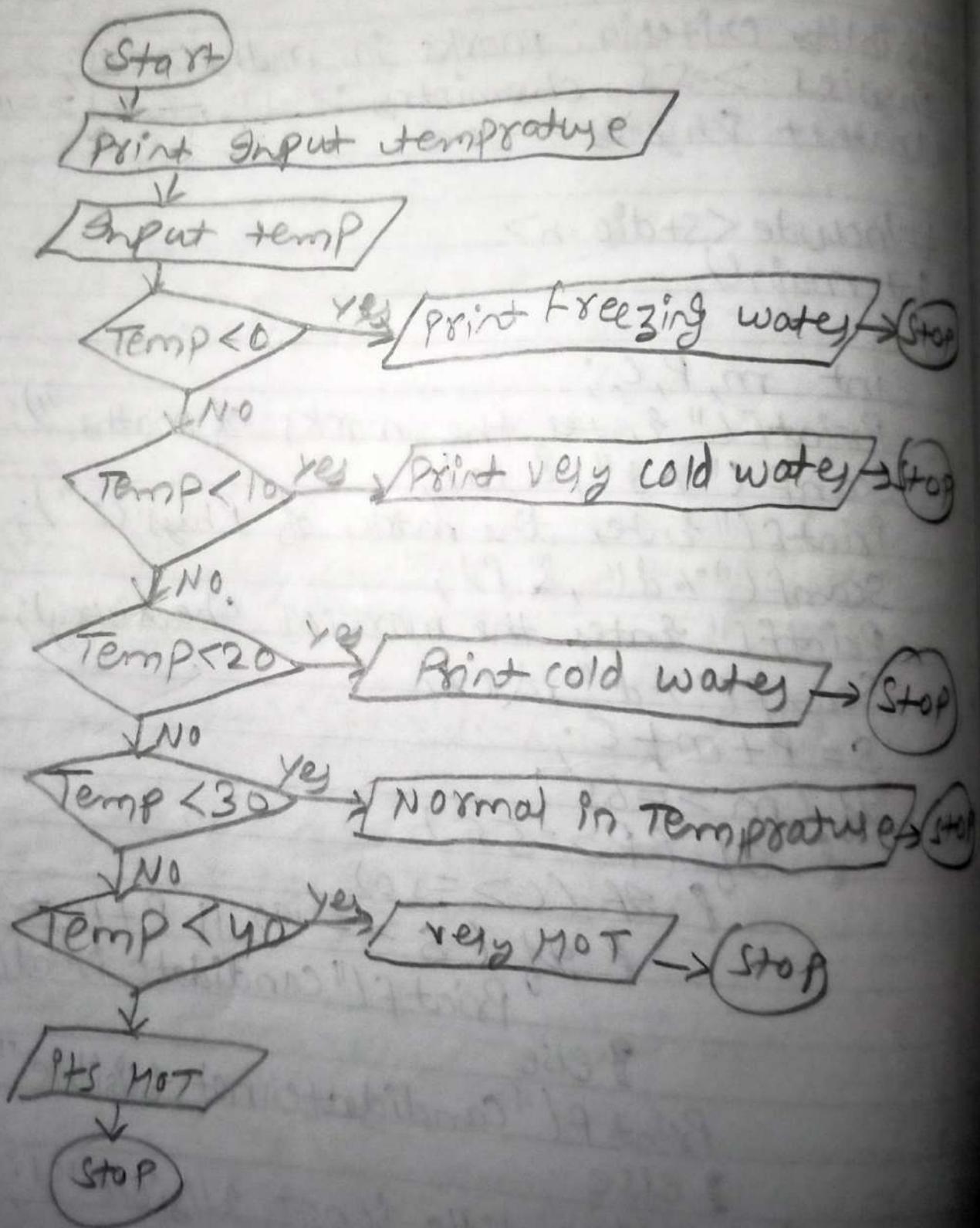
```
            printf("Candidate is not eligible");
```

```
        Else
```

WRITO-LINE

Teacher's Signature:

output  
enters the marks of maths



```

    Pointf("Candidate is not eligible");
2 else
3     Pointf("Candidate is not eligible");
4
5 return 0;
6

```

Program - 14

// write a C program to read temp.  
in centigrade & display a suitable  
message according to temperature state below;

Temp < 0 Freezing water.

Temp 0-10 Very cold water.

Temp 10-20 Then cold water.

Temp 20-30 Then Normal in Temperature.

Temp 30-40 Then it is hot.

Temp >= 40 Then it is very hot.

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

```
int main()
```

```
{
```

```
    int temp;
```

```
    Pointf("Input temperature");
```

```
    scanf("%d", &temp);
```

```
    if (Temp < 0)
```

```
{
```

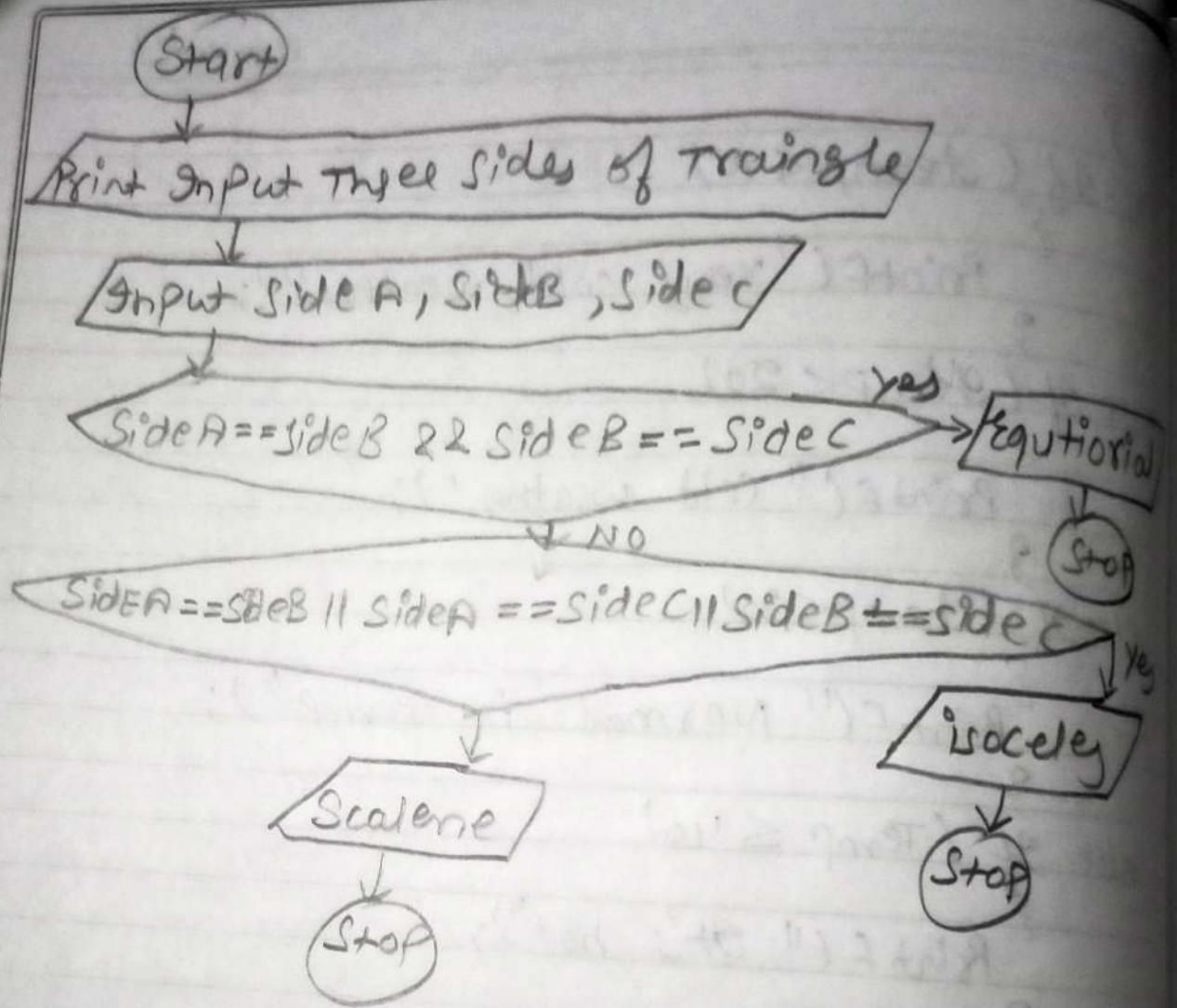
```
        Pointf("Freezing water");
```

Teacher's Signature: \_\_\_\_\_

Output

Input Temperature

```
3  
else-if (temp < 10)  
{  
    printf("very cold weather");  
}  
else if (temp < 20)  
{  
    printf("cold weather");  
}  
else if (temp < 30)  
{  
    printf("normal in temp");  
}  
else if (Temp ≤ 40)  
{  
    printf("It's hot");  
}  
else  
{  
    printf("It's very hot");  
}  
return 0;  
3
```



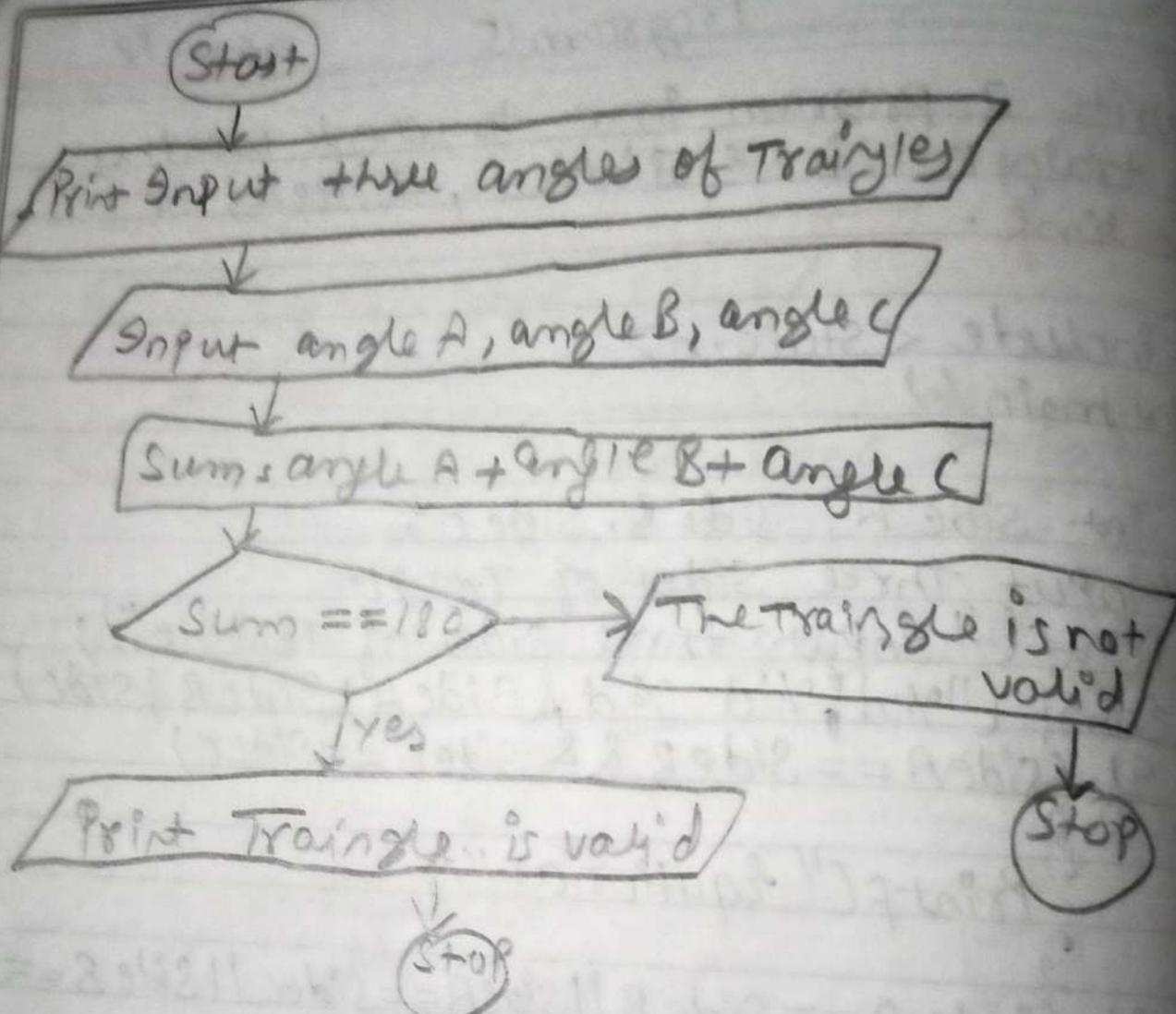
Output

Input Three Sides of Traingle

// write a program in c to check whether a triangle is equilateral, Isosceles or Scalene.

```
#include <stdio.h>
int main()
{
    int sideA, sideB, sideC;
    // input three sides of Triangle
    printf("Input three sides of Triangle");
    scanf("%d %d %d", &sideA, &sideB, &sideC);
    if (sideA == sideB && sideB == sideC)
    {
        printf("Equatorial");
    }
    else if (sideA == sideB || sideA == sideC || sideB == sideC)
    {
        printf("Isosceles");
    }
    else
    {
        printf("Scalene");
    }
    return 0;
}
```

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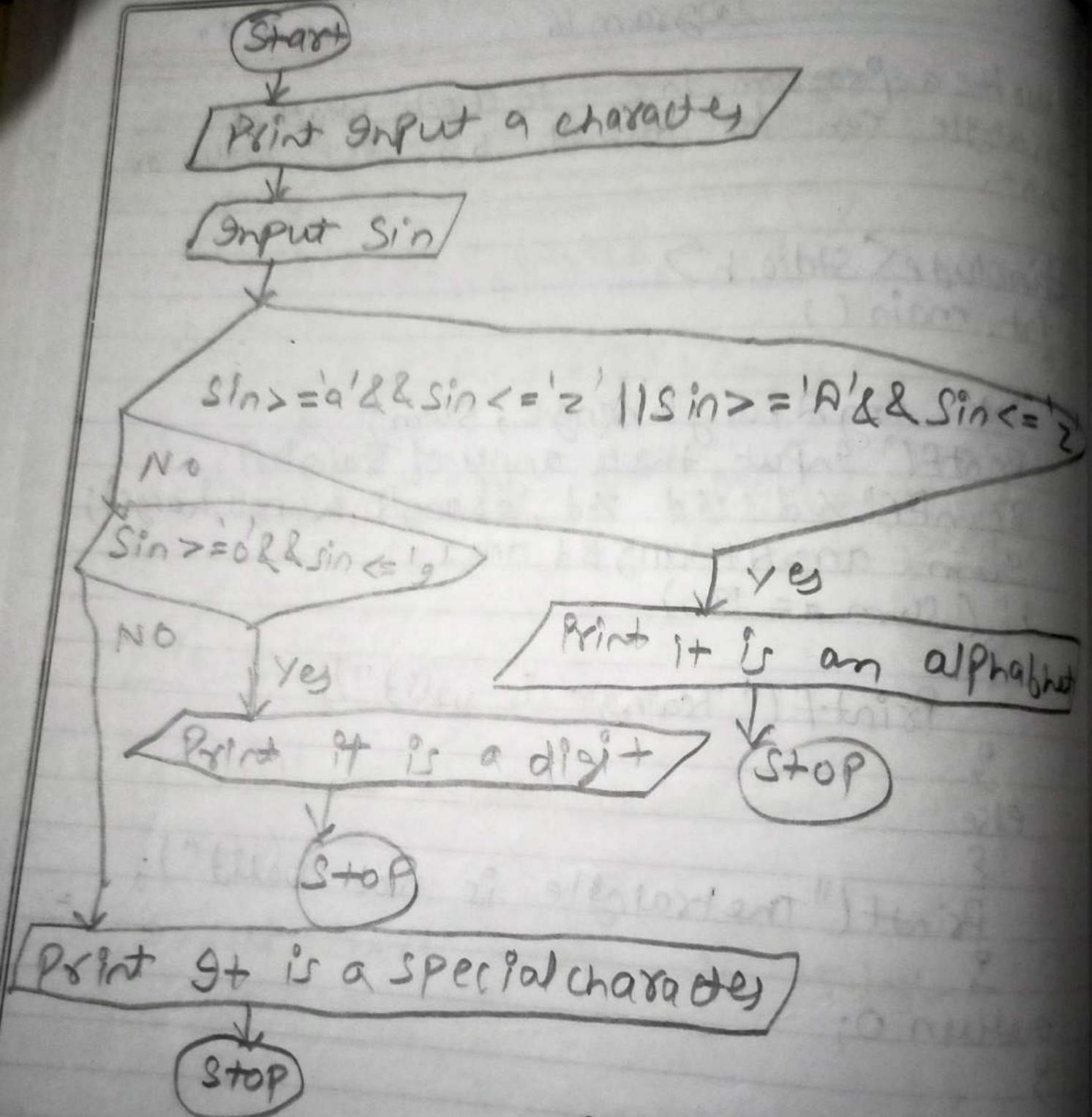


Output

Input three angles of triangle

// write a Program in C To check whether  
Triangle can be formed by given value or  
not.

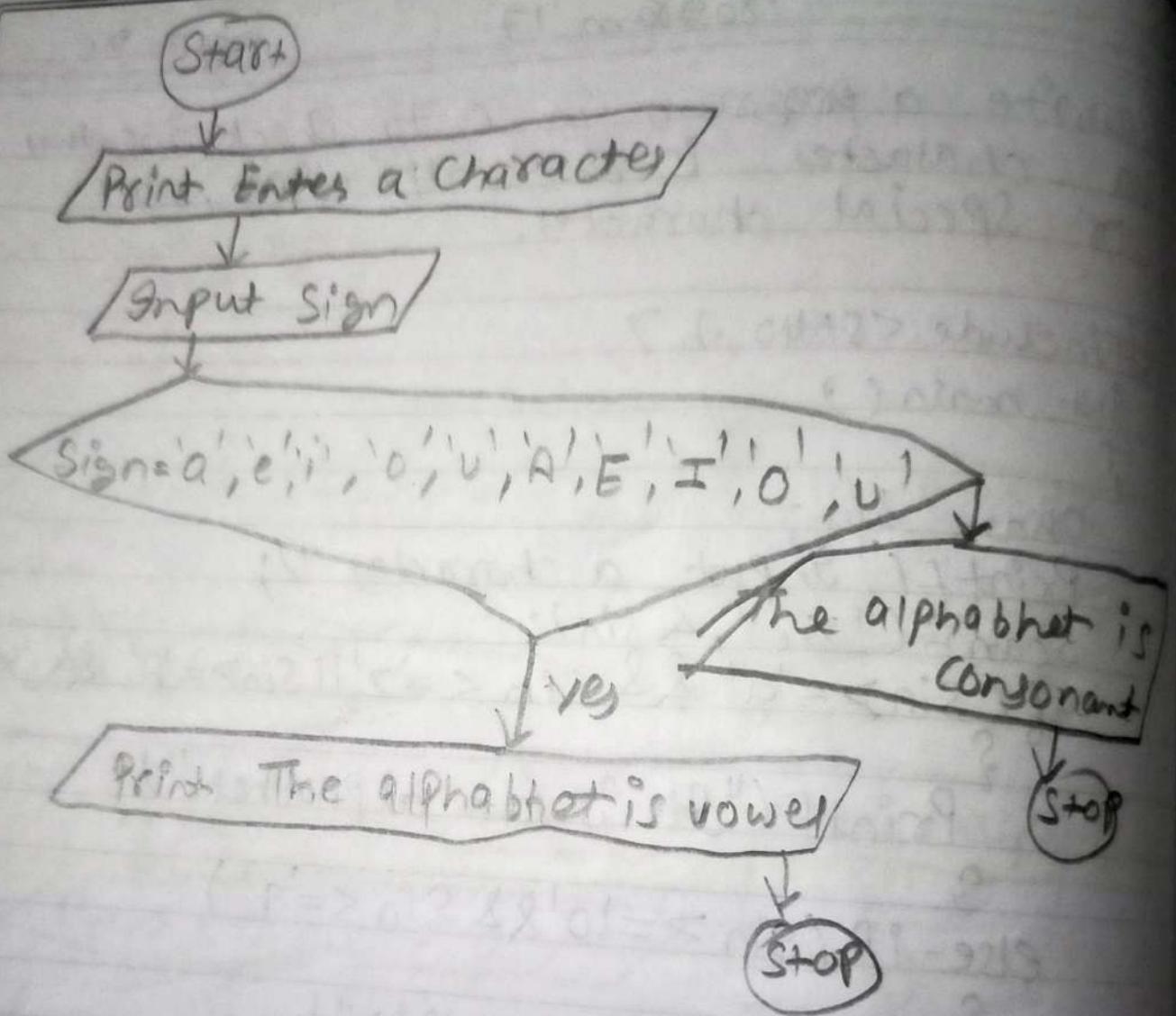
```
#include <stdio.h>
int main()
{
    int angA, angB, angC, Sum;
    printf("Input three angle of Triangle");
    scanf("%d %d %d", &angA, &angB, &angC);
    Sum = angA + angB + angC;
    if (Sum == 180)
    {
        printf("Triangle is valid");
    }
    else
    {
        printf("The triangle is not valid");
    }
    return 0;
}
```



Output  
Input a character

// write a program in C to check whether a character is an alphabet, digit or special character.

```
#include <stdio.h>
int main()
{
    char sin;
    printf("Input a character ");
    scanf("%c", &sin);
    if (sin >= 'a' && sin <= 'z' || sin >= 'A' && sin <= 'Z')
    {
        printf("It is an alphabet");
    }
    else-if (sin >= '0' && sin <= '9')
    {
        printf("It is a digit");
    }
    else
    {
        printf("it is a special character");
    }
    return 0;
}
```



//write a program in C to check whether an alphabet is vowel or consonet.

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

```
int main()
```

```
{
```

```
    char Sign;
```

~~printf("Enter a character ");~~

```
scanf("%c", &Sign);
```

```
if(Sign='a', Sign='e', Sign='i', Sign='o', Sign='u', Sign='A',  
    Sign='E', Sign='I', Sign='O', Sign='U')
```

```
{
```

```
    printf("The alphabet is vowel");
```

```
}
```

```
else
```

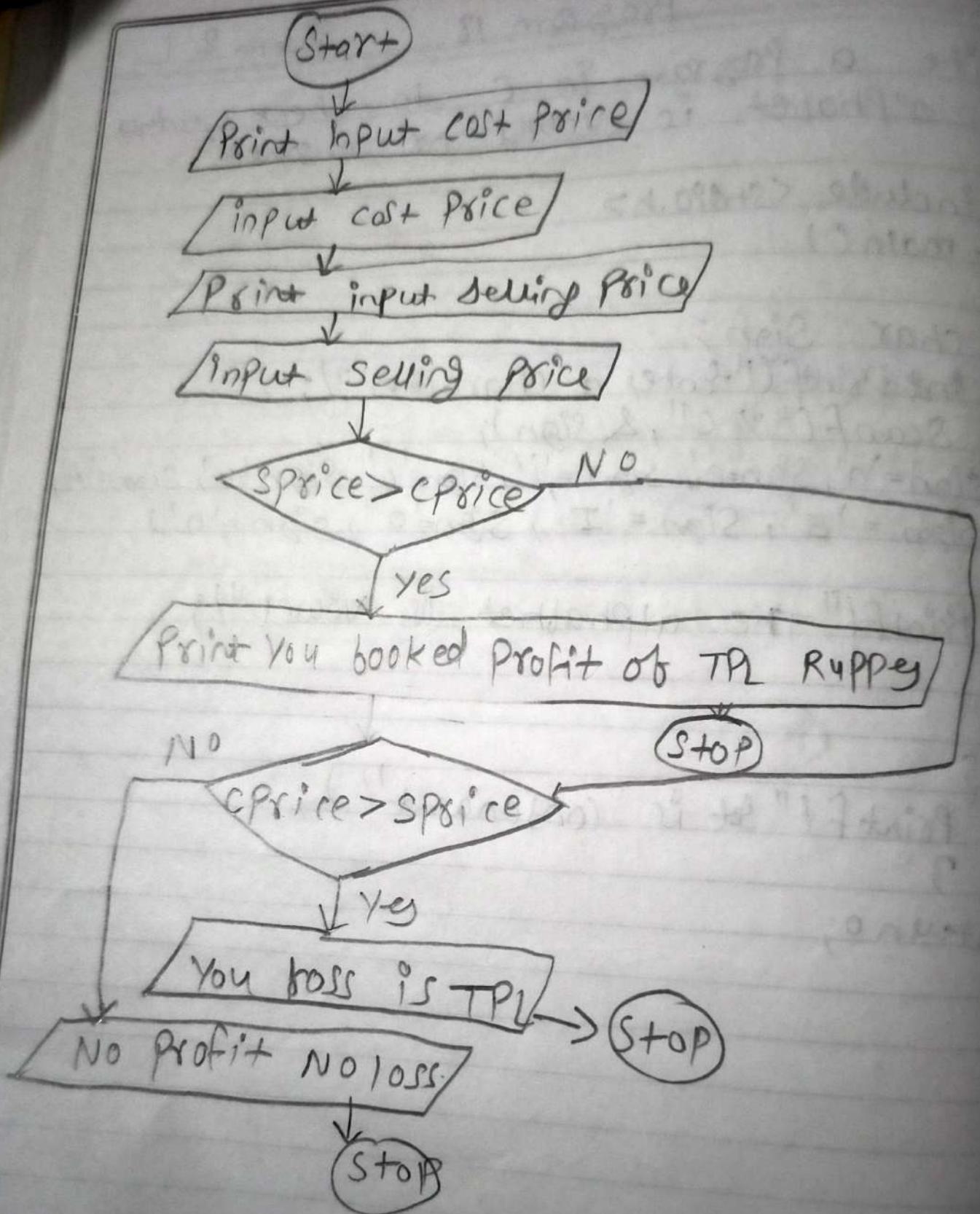
```
{
```

```
    printf("It is consonant");
```

```
}
```

```
return 0;
```

```
}
```



Expt. No. \_\_\_\_\_

Program 19

- 1 Write a C program to calculate Profit  
 & loss on a transaction.

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

```
int main()
```

```
{ int cprice, Sprice, TPL ;
```

```
printf("Input cost price");
```

```
scanf("%d", &cprice);
```

```
printf("Input selling price");
```

```
scanf("%d", &Sprice);
```

```
If (Sprice > cprice)
```

```
{ TPL = Sprice - cprice ;
```

```
printf("In You Booked Profit of %d rupees",
```

```
TPL);
```

```
}
```

```
else-if (cprice > Sprice)
```

```
{
```

```
    TPL = cprice - Sprice
```

```
    printf ("Your loss is %d", TPL);
```

```
}
```

```
else
```

```
{
```

```
    printf("no profit no loss");
```

```
}
```

```
return 0;
```

```
}
```

WRITO-LINE

Teacher's Signature: \_\_\_\_\_

output

Enter a number

Q. Enter a number & Find reverse  
of it

```
#include <stdio.h>
int main() {
    int i, j, k = 0;
    printf("Enter a number");
    scanf("%d", &i);
    while (i > 0) {
        j = i % 10;
        k = k * 10 + j;
        i = i / 10;
    }
    printf(" %d", k);
    return 0;
}
```

## Output

Enter a number

To check Palindrome or not.

```
#include <stdio.h>
int main() {
    int i, j, k, m=0;
    printf(" Enter a number ");
    scanf("%d", &i);
    k = i;
    while(i>0)
    {
        j = i % 10;
        k = k * 10 + j;
        i = i / 10;
    }
    if(i == k)
        printf(" Entered number is a palindrome ");
    else
        printf(" Entered number is not a palindrome ");
    return 0;
}
```

outPut

12345

12345

12345

12345

12345

## Q. Pattern program

```
#include <stdio.h>
int main()
{
    int i, j;
    for (i = 1; i <= 5; i++)
    {
        for (j = 1; j <= 5; j++)
        {
            printf("Y.d");
        }
        printf("\n");
    }
    return 0;
}
```

output

5 4 3 2 1

5 4 3 2 1

5 4 3 2 1

5 4 3 2 1

5 4 3 2 1

Expt

11 9

#

## 11 Pattern Program : -

```
#include <stdio.h>
int main()
{
    int i, j;
    for (i=5; i>=1; i--)
    {
        for (j=5; j>=1; j--)
            printf("%d", j);
        printf("\n");
    }
    return 0;
}
```

Output

1 1 1 1 1  
2 2 2 2 2  
3 3 3 3 3  
4 4 4 4 4  
5 5 5 5 5

## 11 Pattern Program

```
#include <stdio.h>
int main()
{
    int i, j;
    for (i = 1; i <= 5; i++)
    {
        for (j = 1; j <= 5; j++)
        {
            printf(" * ");
        }
        printf("\n");
    }
    return 0;
}
```

Output

5 5 5 5 5

4 4 4 4 4

3 3 3 3 3

2 2 2 2 2

1 1 1 1 1

11 Pattern Program :-

```
#include <stdio.h>
int main()
{
    int i, j;
    for (i = 5; i >= 1; i--)
    {
        for (j = 1; j <= 5; j++)
        {
            printf(" * ", i);
        }
        printf("\n");
    }
    return 0;
}
```

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WRITO-LINE

Output

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

// Pattern program:-

```
#include <stdio.h>
int main (){
    int i, j;
    for (i = 1; i <= 5; i++)
    {
        for (j = 1; j <= i; j++)
        {
            printf("%d", j);
        }
        printf("\n");
    }
    return 0;
}
```

output

5.

5 4

5 4 3

5 4 3 2

5 4 3 2 1

decreases

increases

Condition checked

if jump to

tilde

value of  $i = j$  ?

Condition tested

if condition true?

falling

?

(else)

```
#include <stdio.h>
int main() {
    int i, j;
    for (i = 5; i >= 1; i--)
    {
        for (j = 5; j >= i; j--)
            printf("%d", j);
        printf("\n");
    }
    return 0;
}
```

Output

5 4 3 2 1

5 4 3 2

5 4 3

5 4

5

// Printing Program

#include <stdio.h>

int main()

{

    int i, j;  
    for (i = 1; i <= 5; i++) {

{

        for (j = 5; j <= i; j--) .

{

            printf("%d", j);

}

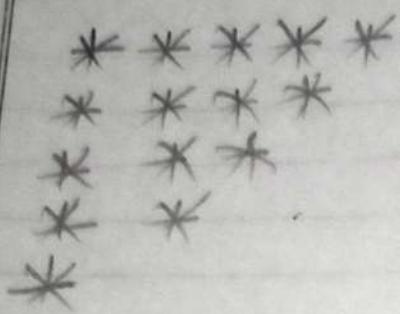
        printf("\n");

}

    return 0;

}

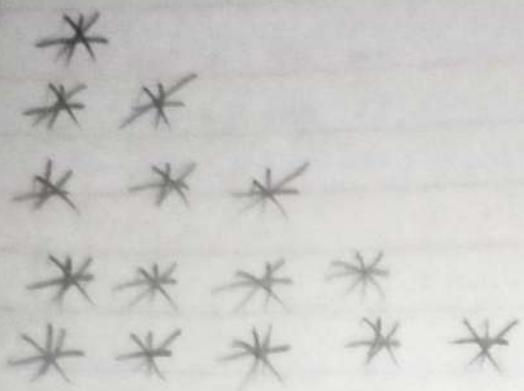
Output



## H Printing Program

```
#include <stdio.h>
int main() {
    int i, j;
    for (i = 1; i <= 5; i++) {
        for (j = 5; j >= 1; j--) {
            printf("*");
        }
        printf("\n");
    }
    return 0;
}
```

output



## Program.30

```
#include <stdio.h>
int main()
{
    int i, j;
    for (i = 5; i >= 1; i--)
    {
        for (j = 5; j >= i; j--)
            printf("*");
        printf("\n");
    }
    return 0;
}
```

out put

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

## → Part of Program

```
#include <stdio.h>
int main()
{
    int i, j;
    for(i=5; i>=1; i--)
    {
        for(j=1; j<=i; j++)
            printf("*");
        printf("\n");
    }
    return 0;
}
```

output

1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5

→ Pattern Program :-

```
#include <stdio.h>
int main()
{
    int i, j, k;
    for (i = 1; i <= 5; i++)
    {
        for (k = 5; k >= i; k--)
        {
            printf(" . ");
        }
        for (j = 1; j <= i; j++)
        {
            printf("%d", j);
        }
        printf("\n");
    }
    return 0;
}
```

Output



⇒ Pattern program :-

```
#include <stdio.h>
int main()
{
    for (i=1 ; i<=5 ; i++)
    {
        for (k=5 ; k>=i ; k--)
        {
            printf(" ");
        }
        for (j=1 ; j<=i ; j++)
        {
            printf("*");
        }
        printf("\n");
    }
    getch();
    return 0;
}
```

Output

22 members

in sequence

1 2 3  
1 2 3 4 5  
1 2 3 4 5 6 7  
1 2 3 4 5 6 7 8 9

(+i; i <= l ; i = i + 1)

(-x; i <= k ; i = i + 1)

(i "print")

(+t; i <= r ; i = i + 1)

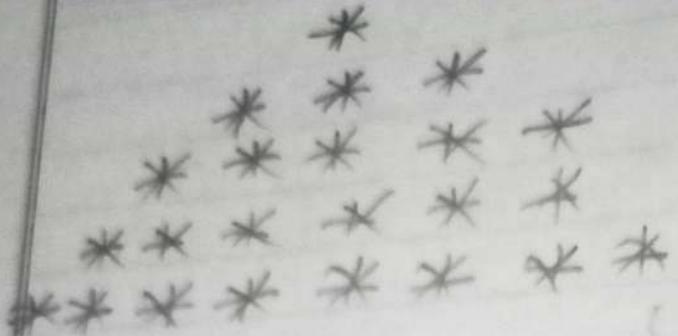
(-x "print")

(("a") print)

## ⇒ Printing Program:-

```
#include <Stdio.h>
int main() {
    int i, J, K;
    for (i=1; i<=5; i++) {
        for (K=5; K>=i; K--)
            printf("    ");
        for (J=1; J<=(2*i)-1; J++)
            printf(" * ");
        printf("\n");
    }
    getch();
    return 0;
}
```

output



## → Pointing program

```
#include <stdio.h>
int main() {
    int i, j, k;
    for (i = 1; i <= 5; i++)
    {
        for (k = 5; k >= 1; k--)
        {
            printf(" ");
        }
        for (j = 1; j <= (2 * i) - 1; j++)
        {
            printf("%d", j);
        }
        printf("\n");
    }
    return 0;
}
```

Output

1  
1 2 1  
1 2 3 2 1  
1 2 3 4 3 2 1  
2 3 4 5 4 3 2 1

(-x^2 + 2x - 1) \times

(x^2 + 1) =

x^4 + x^2 - (1^2) \Rightarrow x^4 + 1 = x^4 + 1

(x^2 + 1)^2 =

(x^2 + 1)^2 =

⇒ Printing Program:-

```
#include <stdio.h>
int main()
{
    int i, j, k, c;
    for( i=1 ; i<=5 ; i++ )
    {
        for( k=5 ; k>=1 ; k-- )
            printf(" _ ");
        for( j=1 ; j<=i ; j++ )
        {
            printf("y.d");
        }
        for( c=j-2 ; c>=1 ; c++ )
            printf("y.d");
        printf("\n");
    }
    return 0;
}
```

Teacher's Signature:

output

1 2 3 4 5  
1 2 3 4  
1 2 3  
1 2  
1

{ (0 < i < 5, 2 > 170)

{ (i == 0) && (i > 3 & i < 5)

{ (x, h) < 0.1 & x > 0)

{ (x < 0.5 & x > -0.5) & x > 0)

{ (x, h) < 0.1 & x > 0)

{ (x, h) < 0.1 & x > 0)

▷ Pattern program

```
#include <stdio.h>
int main()
{
    int i, j, k;
    for (i = 1; i <= 5; i++)
    {
        for (k = 1; k <= i; k++)
        {
            printf(" ");
        }
        for (j = 1; j <= i; j++)
        {
            printf("%d", j);
        }
        printf("\n");
    }
    return 0;
}
```

output



Expt. N



P

#

→ Pattern program :-

```
#include <stdio.h>
int main() {
    int i, j, k;
    for (i = 5; i >= 1; i--)
    {
        for (k = 5; k >= i; k--)
        {
            printf(" ");
        }
        for (j = 1; j <= (2 * i - 1); j++)
        {
            printf("*");
        }
        printf("\n");
    }
    return 0;
}
```

Output



→ Pattern Program:-

```
#include <stdio.h>
int main ()
{
    int i, j, k;
    for (i = 1; i <= 5; i++)
    {
        for (k = 1; k <= i; k++)
        {
            printf(" ");
        }
        for (j = 1; j <= 2 * i - 1; j++)
        {
            printf("*");
        }
        printf("\n");
    }
    for (i = 4; i >= 1; i--)
    {
        for (k = 5; k >= i; k--)
        {
            printf(" ");
        }
        for (j = 1; j <= 2 * i - 1; j++)
        {
            printf("*");
        }
    }
}
```

Output

Enter the number

Expt.

Expt. No. \_\_\_\_\_

Date \_\_\_\_\_

## Program 40

Page No. \_\_\_\_\_

```
3  
return 0;  
3
```

→ Enter a number & find out it is arm strong or not:-

```
#include <stdio.h>
int main()
{
    int i, t, s, m;
    printf("Enter the number");
    scanf("%d", &i);
    t = n;
    while (n > 0)
    {
        m = i % 10;
        s += m * m * m;
        m = i / 10;
    }
    if (s == t)
        printf("This number is armstrong");
    else
        printf("not an armstrong number");
}
return 0;
3
```

Teacher's Signature

output  
enter a number

Expt



now it finds 6 with 2 columns to  
add up to

<4.0.102> 98  
Chances

(1.2.4.6)  
it works with 2 digits  
(1.8.16) 200

(0.2.4)  
(local max)

2.2.2.1 = 16  
1.0.1.0 = 10  
0.0.1.1 = 11

1.1.1.1 = 16  
0.1.1.1 = 12  
0.0.1.1 = 11

1.1.1.1 = 16  
0.1.1.1 = 12  
0.0.1.1 = 11

→ Enter a number & find it's prime number  
if True or not.

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

```
int main() {
```

```
    int n, i, f = 1;
```

```
    printf("Enter the number");
```

```
    scanf("%d", &n);
```

```
    for (i = 2; i < n/2; i++)
```

```
{
```

```
    if (n % i == 0)
```

```
{
```

```
        f = 0;
```

```
        break;
```

```
}
```

```
3
```

```
if (f == 1)
```

```
{
```

```
    printf("Entered no. is prime");
```

```
}
```

```
else
```

```
{
```

```
    printf("Entered no. is not prime");
```

```
}
```

```
return 0;
```

```
}
```

Output

Enter a number

Expt. 1

→ Enter a number & find reverse of it:-

#include <stdio.h>

int main()

{

int i, j, k, l;

printf("Enter a number");

scanf("%d", &i);

for(i>0;

while (i>0).

{

k = i%10;

printf("%d", k);

i = i/10;

}

return 0;

Teacher's Signature: \_\_\_\_\_

Output

Enter a number: 1234567890

Output

<stdin> 1234567890

Exp



1234567890  
1234567890  
1234567890  
1234567890  
1234567890

1234567890  
1234567890  
1234567890  
1234567890

1234567890  
1234567890

## Program 43

→ Enter a number & find out it is palindrome or not :-

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

```
int main()
```

```
{
```

```
int n, f, ok;
```

```
printf("Enter the number");
```

```
scanf("%d", &n);
```

```
F = n
```

```
while (n > 0)
```

```
{
```

```
k = n % 10
```

```
y = (y * 10) + k;
```

```
n = n / 10;
```

```
}
```

```
if (F == y){
```

```
printf("Entered no. is palindrome");
```

```
}
```

```
else
```

```
{
```

```
printf("Not a palindrome");
```

```
}
```

```
return 0;
```

```
}
```

output

1. Beginner level
2. Intermediate level
3. Expert level

enters the jewel

→ Program for level:-

```
#include < stdio.h >
int main() {
    int n;
    printf("1. Beginner level");
    printf("\n2. Intermediate level");
    printf("\n3. Expert level");
```

```
printf("\nEnter the level");
scanf("%d", &n);
switch(n)
```

case 1:

```
    printf(" You entered Beginner level");
    break;
```

case 2:

```
    printf(" You entered Intermediate
           level");
    break;
```

case 3 {

```
    printf(" You entered Expert level");
    break;
```

}

Teacher's Signature:

Output

1 2 3 4 5 6 7 8 9 10

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

Cloudy, wind 10-12 mph

Temperature 50° F

Wind gusts 15-17 mph

default :

{

Point F(" Please Enter value b/w 1-3");

3

return 0;

3

→ Point 1 To 10 using for loop:

```
#include <stdio.h>
int main()
{
    int n;
    n = 10;
    while (n >= 0) {
        for (i = 1; i <= n; i++)
        {
            printf("%d ", i);
        }
        n--;
    }
    return 0;
}
```

Teacher's Signature: \_\_\_\_\_

output

10 9 8 7 6 5 4 3 2

output

Bhavesh

Bhawesh

Bhawesh

Bhawesh

Bhawesh

⇒ Print 10 to 1

```
#include <stdio.h>
int main() {
    int i;
    for (i = 10; i >= 1; i--)
        printf("%d", i);
    return 0;
}
```

Program 47

⇒ Print Name 5 Times

```
#include <stdio.h>
int main()
{
    int i = 1;
    while (i <= 10)
    {
        printf("\n Bhavesh");
        i++;
    }
    return 0;
}
```

Output  
Enter the value of n

Output

0 1 1 2 3 5 8 13 21 34 55

## Program 48

⇒ Print table of n with loop :-

```
#include <stdio.h>
int main() {
    int n, c, R;
    printf("Enter the value of n");
    scanf("%d", &n);
    for (c=1; c<=10; c++)
        {
            R = n * c;
            printf("n * %d = %d", n, R);
        }
    getch();
    return 0;
}
```

## Program 49

⇒ Print Fibonacci series 10 times.

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

```
int main()
```

```
{
```

```
int n, y, z, c;
```

```
n=0;
```

```
y=0;
```

```
printf("%d", n);
```

Teacher's Signature: \_\_\_\_\_

Output

A B C D E F G H I J K L M N D P Ø R S T U V W X Y Z

Exp

Q.

```
printf("y.d", y);
for( c=1; c<=10; c++)
{
    z = x + y;
    printf("y.d", z);
    x = y;
    y = z;
}
return 0;
```

Q. Print A To Z Alphabet using for loop

```
#include <stdio.h>
int main()
{
    int i;
    for( i=65; i<=90; i++)
    {
        printf("y.c", i);
    }
    return 0;
}
```

Teacher's Signature: \_\_\_\_\_

Output  
Input your grade

Castello che  
Serravalle

- Q. Write a program in C to accept a grade & declare the equivalent description.

Grade	Description
E	Excellent
V	Very good
G	Good
A	Average
F	Fail

```
#include <stdio.h>
#include <ctype.h>
#include <string.h>
int main()
{
    char notes[15];
    char grd;
    printf("Input your grade");
    scanf("%c", &grd);
    grd = toupper(grd);
    switch(grd)
    {
        case 'E':
            strcpy(notes, "Excellent");
            break;
        case 'V':

```

Teacher's Signature: \_\_\_\_\_

strcpy (notes, "very good");  
break;

case 'q':

strcpy (notes, "good");  
break;

case 'A':

strcpy (notes, "Average");  
break;

case 'F':

strcpy (notes, "Fail");  
break;

default:

strcpy (notes, "invalid Grade found in");  
break;

}

printf (" You have chosen : %c In ", notes);

}

return 0;

}

Output

Input day no.

"Sunday" 1

"Monday" 2

"Tuesday" 3

"Wednesday" 4

"Thursday" 5

## Program 52

- \* Write a program in C to read any day no. in integer & display by name in the word.

```
#include <stdio.h>
int main()
{
    int dayno;
    printf("Input day no.");
    scanf("%d", &dayno);
    switch (dayno)
    {
        case '1':
            printf("Monday\n");
            break;
        case '2':
            printf("Tuesday\n");
            break;
        case '3':
            printf("Wednesday\n");
            break;
        case '4':
            printf("Thursday\n");
            break;
        case '5':
            printf("Friday\n");
            break;
        case '6':
            printf("Saturday\n");
            break;
        case '7':
            printf("Sunday\n");
            break;
    }
}
```

Teacher's Signature: \_\_\_\_\_

Output

Input digit (0 - 9):

EX

Q.

```
break;  
default:  
    printf(" invalid day number ");  
    break;  
}  
return 0;  
}
```

Q. Write a program in C to read any digit, display in the word:

```
#include <stdio.h>  
int main()  
{  
    int cdigit;  
    printf("Input digit (0-9) : ");  
scanf  
    scanf("%d", &cdigit);  
    switch (cdigit);  
{
```

case 0 :

```
        printf("zero");  
        break;
```

case 1 :

```
        printf("one");  
        break;
```

case 2 :

```
printf("two");  
break;  
case 3:
```

```
printf("three");  
break;  
case 4:
```

```
printf("Four");  
break;  
case 5:
```

```
printf("Five");  
break;
```

```
case 6:
```

```
printf("Six");  
break;
```

```
case 7:
```

```
printf("Seven");  
break;
```

```
case 8:
```

```
printf("Eight");  
break;
```

```
case 9:
```

```
printf("Nine");  
break;
```

```
case default:
```

```
printf("invalid digit");  
break;
```

Output

Input month number

0.

return 0;

y

- Q. write a program in C to read any month number in integer & display month name in the word.

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

```
int main()
```

```
{
```

```
int monno;
```

```
printf("Input month number");
```

```
scanf("%d", &monno);
```

```
switch(monno)
```

```
{
```

```
Case 1:
```

```
printf("January");
```

```
break;
```

```
Case 2:
```

```
printf("February");
```

```
break;
```

```
Case 3:
```

```
printf("March");
```

```
break;
```

```
Case 4:
```

```
printf("April");
```

```
break;
```

Teacher's Signature: \_\_\_\_\_

case 5:

```
printf(" May");  
break;
```

case 6:

```
printf(" June ");  
break;
```

case 7:

```
printf(" July ");  
break;
```

case 8:

```
printf(" August ");  
break;
```

case 9:

~~Break~~

```
printf(" September ");  
break;
```

case 10:

```
printf(" October ");  
break;
```

case 11:

```
printf(" November ");  
break;
```

case 12:

```
printf(" December ");  
break;
```

Default:

```
printf(" Invalid month no. ");
```

Teacher's Signature: \_\_\_\_\_

Output

["Hello", "World"]

["What", "is", "your", "name?"]

["Hello", "World"]

["I", "am", "a", "Robot"]

["Goodbye"]

["Hello", "World"]

["Goodbye"]

10

["Goodbye"]

["Goodbye"]

["Goodbye"]

["Goodbye"]

["Goodbye"]

["Goodbye"]

["Goodbye"]

["Goodbye"]

["Goodbye"]

Exp

Q.

#

```
break;  
3  
return 0;  
3
```

Q. Write a program in C to read any month number in integer & display the number of days for this month.

```
#include <stdio.h>  
int main()  
{  
    int monno;  
    char monnm[15];  
    scanf(" %d", &monno);  
    switch (monno)  
    {  
        Case 1:  
        Case 3:  
        Case 5:  
        Case 7:  
        Case 8:  
        Case 10:  
        Case 12:  
            printf(" monthly have 31 days");  
            break;  
        Case 2:
```

Teacher's Signature: \_\_\_\_\_

printf("The 2nd month is February  
& have 28 days "In");  
printf(" in leap years the February  
month have 29 days "In");

break;

case 4:

case 5:

case 6:

case 7:

case 8:

case 9:

case 10:

printf(" month have 30 days");

break;

default :

printf("invalid month number");

break;

3

return 0;

3

output

1 2 3 4, 5 6 7 8 9 10

- Q. Create an array of 10 Element & print the values

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int arr[10] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
    int i;
    clrscr();
    for(i=0; i<10; i++)
    {
        printf("%d", arr[i]);
    }
    getch();
    return 0;
}
```

### Program 57.

- Q. Write a program in C to print element of array in reverse order

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

output

10 9 8 7 6 5 4 3 2 1

output

Enter a number

```

int n[10] = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };
int i;
clrscr();
for (i = 9; i >= 0; i++)
{
    printf("%d", n[i]);
}
getch();
return 0;

```

### Program 58

- Q. Write a program of an array of 10 elements in it & print their values.

```

#include <stdio.h>
#include <conio.h>
int main()
{
    int i, n[10];
    for (i = 0; i < 10; i++)
    {
        printf("Enter a number");
        scanf("%d", &n[i]);
    }
    for (i = 0; i < 10; i++)
    {

```

Output

Enter the number

```
    printf ("%d", s[i]);  
    }  
    getch();  
    return 0;  
}
```

Program 5,

- Q. insert 10 element in an array & find out the sum of all element :-

```
#include <stdio.h>  
int main()  
{  
    int i, sum=0, s[10];  
    for( i=0; i<10; i++)  
    {  
        printf ("Enter the number");  
        scanf ("%d", &s[i]);  
        sum += s[i];  
    }  
    printf ("The sum is %d", sum);  
    getch();  
    return 0;  
}
```

Output

Bhawesh

Output

Enter Your name

## Program 60

Q. write an example of character array

```
#include <stdio.h>
#include <conio.h>
int main()
{
    char Name [25] = "Bhavesh";
    printf ("%s", Name);
    getch();
    return 0;
}
```

## Program 61

Q. Input your name & Print

```
#include <stdio.h>
#include <conio.h>
int main()
{
    char Name [25];
    printf ("Enter your name");
    scanf ("%s", Name);
    gets (Name);
    printf ("%s", Name);
```

outPut

Enter the product price

```
getch();  
return 0;  
}
```

### Program 62

Q. Input 10 Product price & print

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

```
int main()
```

```
{ float price[10];
```

```
int i;
```

```
for( i=0 ; i< 10 ; i++ )
```

```
{
```

```
printf("Enter the product Price");
```

```
scanf("%f", &price);
```

```
}
```

```
for( i=0 ; i< 10 ; i++ )
```

```
{
```

```
printf("The price of Product is %.d, Price  
[i]");
```

```
}
```

```
return 0;
```

```
}
```

output

output

- $\text{y}[0]$  value is 10 Address is 101.
- $\text{y}[1]$  value is 20 Address is 103
- $\text{y}[2]$  value is 30 Address is 105
- $\text{y}[3]$  value is 40 Address is 107
- $\text{y}[4]$  value is 50 Address is 109

## Program 63

- a. Insert one new array & convert a

```
#include <stdio.h>
int main ()
{
    int x[5], y[5], i; i = {1,2,3,4,5}; i;
    for (i = 0; i < 5; i++)
    {
        y[i] = x[i];
    }
    getch();
    return 0;
}
```

## Program 64

- b. Print the value & address of array element :-

```
#include <stdio.h>
int main ()
{
    int i, x[] = {10, 20, 30, 40, 50}; i;
    for (i = 0; i < 5; i++)
}
```

Teacher's Signature: \_\_\_\_\_

## output

$n[0]$	value is 10.1	Address 101
$n[1]$	value is 10.2	Address 105
$n[2]$	value is 10.3	Address 109
$n[3]$	value is 10.4	Address 113
$n[4]$	value is 10.5.	Address 117

```
printf ("%f value is %.d Address is  
        %p in", i, n[i], &n[i]);  
    }  
    return 0;  
}
```

- a. \* insert & float array & print  
its value & Address

```
#include <stdio.h>  
int main()  
{  
    int i;  
    float n[5] = {10.1, 10.2, 10.3, 10.4, 10.5};  
    for (i=0; i<5; i++)  
    {  
        printf ("%f value %.d Address %.d",  
               i, n[i], &n[i]);  
    }  
    return 0;  
}
```