

1)

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

```
int main()
```

```
{
```

```
    printf("Name   : Alexandra Abramov\n");
```

```
    printf("DOB    : July 14, 1975\n");
```

```
    printf("Mobile : 99-99999999999\n");
```

```
    return(0);
```

```
}
```

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

```
int main(void) {
```

```
    char name[] = "Alexandra Abramov";
```

```
    char dob[] = "July 14, 1975";
```

```
    char mob[] = "99-99999999999";
```

```
    printf("Name \t : %s\n", name);
```

```
    printf("DOB \t : %s\n", dob);
```

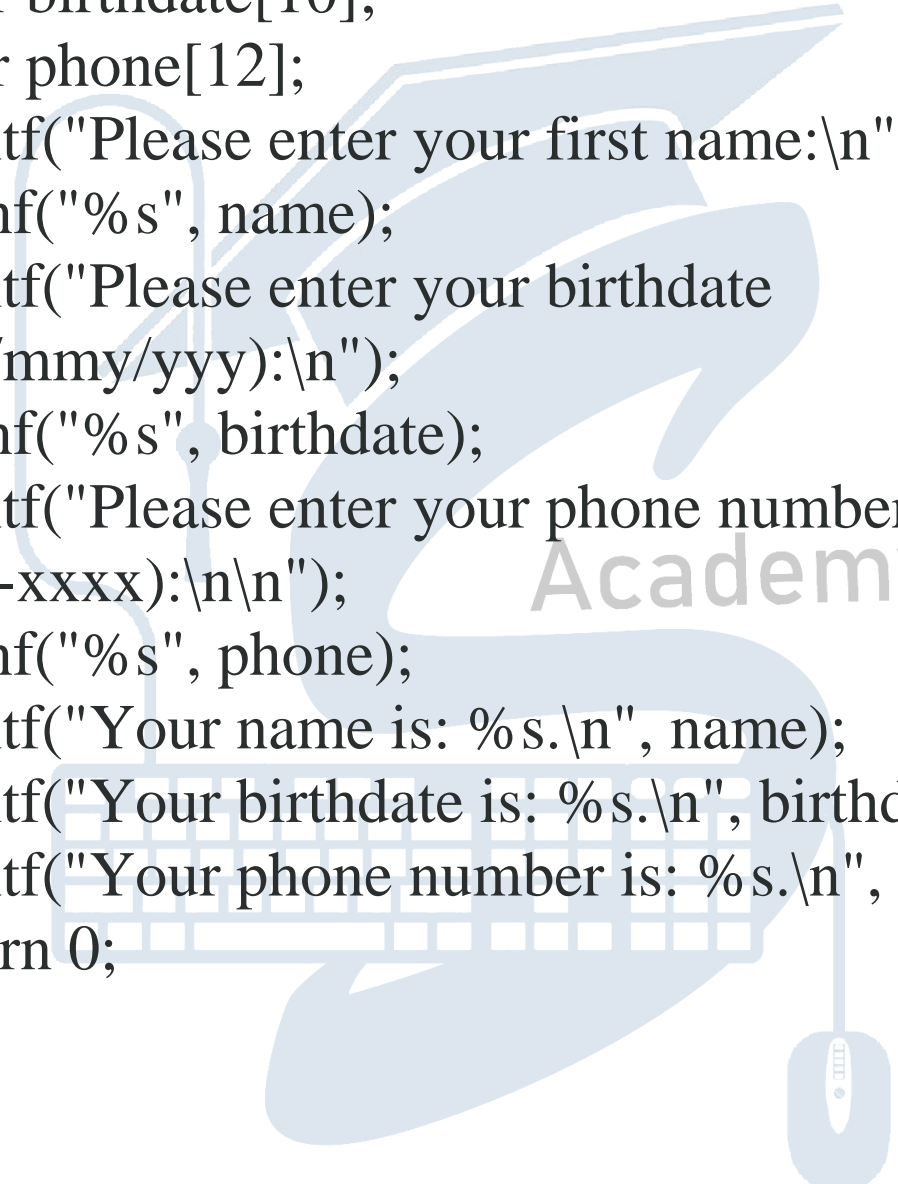
```
    printf("Mobile \t: %s\n", mob);
```

```
    return 0;
```

```
}
```

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

```
int main()
{
char name[30];
char birthdate[10];
char phone[12];
printf("Please enter your first name:\n");
scanf("%s", name);
printf("Please enter your birthdate
(dd/mmy/yyy):\n");
scanf("%s", birthdate);
printf("Please enter your phone number (xxx-
xxx-xxxx):\n\n");
scanf("%s", phone);
printf("Your name is: %s.\n", name);
printf("Your birthdate is: %s.\n", birthdate);
printf("Your phone number is: %s.\n", phone);
return 0;
}
```



2)

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

```
int main()
```

```
{
```

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

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

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

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

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

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

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

```
    return(0);
```

```
}
```

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

```
int main()
```

```
{
```

```
int hashes[] = {6, 1, 1, 5, 1, 1, 1};
```

```
for(int i = 0; i < 7; ++i){
```

```
    for(int j = 0; j < hashes[i]; ++j){
```

```
        printf("#");
```

```
    }
```

```
puts("");  
}  
return 0;  
}
```

```
#include<stdio.h>  
#include<stdlib.h>  
int main()  
{  
int j=5;  
int k=3;  
for(int i=0;i<2;i++)  
{  
for(j;j>0;j--)  
{  
printf("#");  
}  
for(k;k>0;k--)  
{  
printf("#\n");  
}  
j=4;  
k=4;
```



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```
}  
return 0;  
}
```

```
3)  
#include <stdio.h>  
int main()  
{  
    printf("    #####\n");  
    printf("  ##    ##\n");  
    printf(" #\n");  
    printf(" #\n");  
    printf(" #\n");  
    printf(" #\n");  
    printf(" #\n");  
    printf("  ##    ##\n");  
    printf("    #####\n");  
  
    return(0);  
}
```

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

```
int main()
{
int hashes[] = {-3, 6, -1, 2, 0, -6, 2, 1, 1, 1, 1, 1,
-1, 2, 0, -6, 2, -3, 6};
for(int i = 0; i < sizeof(hashes)/sizeof(int); ++i){
for(int j = 0; j < abs(hashes[i]); ++j){
if (hashes[i] < 0) {
printf(" ");
} else {
printf("#");
}
}
if (hashes[i + 1] != 0 && hashes[i] > 0) {
puts("");
}
}
puts("");
return 0;
}
```

```
#include <stdio.h>
int main(void) {
int i,j,counter=0;
```

```
for(i=0;i<=7;i++){  
if(i==0){  
printf(" ");  
for(j=0;j<5;j++){  
printf("#");  
}  
printf(" ");  
printf("\n");  
}  
if(i==1){  
printf(" ##");  
for(j=0;j<5;j++){  
printf(" ");  
}  
printf("## ");  
}  
printf("\n");  
if(i>1){  
if(i<6){  
printf("#\n");  
}  
if(i==6){  
printf(" ##");
```

```
for(j=0;j<5;j++){  
    printf(" ");  
}  
printf("## ");  
}  
printf("\n");  
if(i==7){  
    printf(" ");  
    for(j=0;j<5;j++){  
        printf("#");  
    }  
    printf(" ");  
    printf("\n");  
}  
}  
}  
return 0;  
}
```

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



```
int i;
for(i=0;i<=9;i++)
{
if(i==0 || i==9) printf(" #####\n");
if(i==1 || i==8) printf(" ##  ##\n");
else printf("#\n");
}
return 0;
}
```

4)

```
#include <stdio.h>
int main()
{
    char char1 = 'X';
    char char2 = 'M';
    char char3 = 'L';

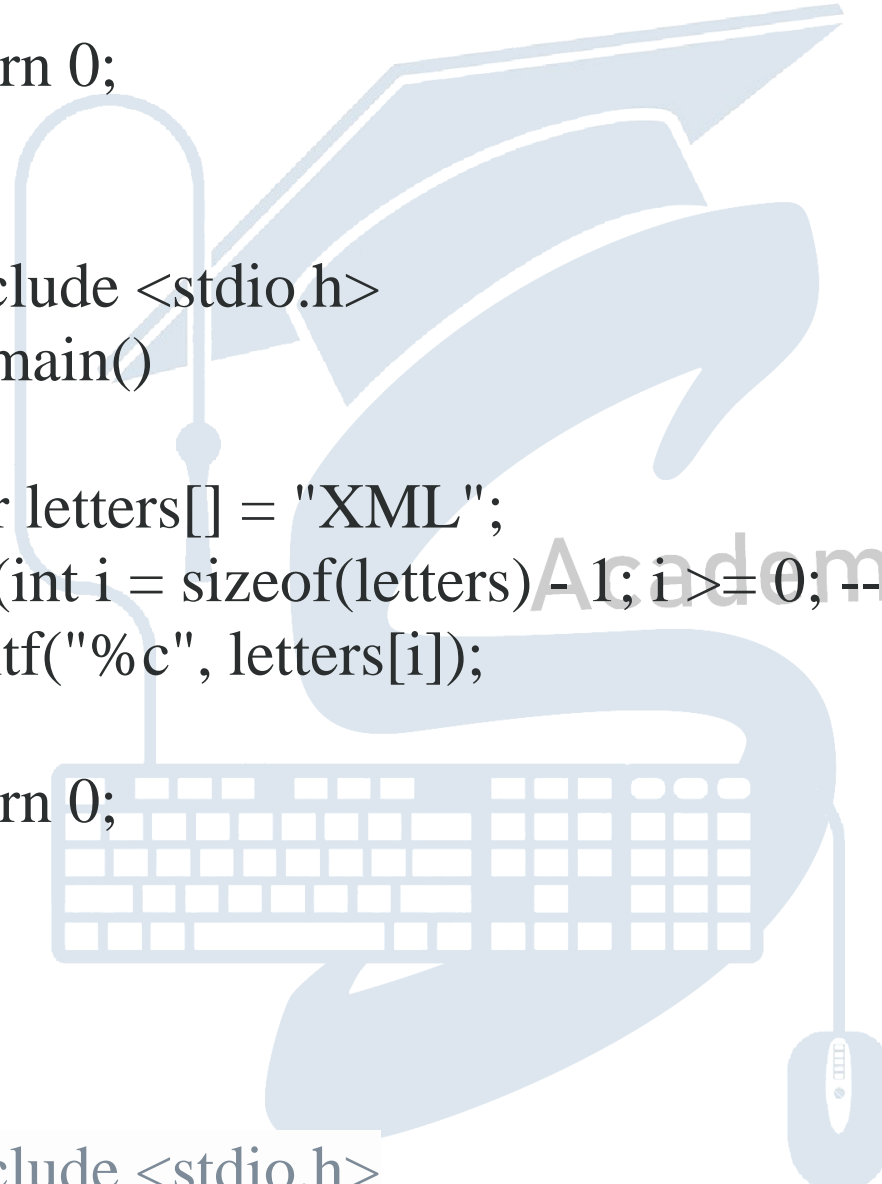
    printf("%The reverse of %c%c%c is
%c%c%c\n",
        char1, char2, char3,
        char3, char2, char1);
}
```

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

```
#include <stdio.h>  
#include <stdlib.h>  
int main(int argc, char** argv) {  
    int i;  
    int j;  
    char letters[3]="";  
    printf("Enter three letters!");  
    scanf("%s", letters);  
    for(i=2; i>=0; i--){  
        printf("%c", letters[i]);  
    }  
    return (EXIT_SUCCESS);  
}
```

```
#include <stdio.h>  
#include <stdlib.h>  
int main()  
{  
    int i;  
    char strng[5]="XML";
```

```
for (i=2;i>=0;i--)\n{\nprintf("string is %c\\n",strng[i]);\n}\nreturn 0;\n}\n\n#include <stdio.h>\nint main()\n{\nchar letters[] = "XML";\nfor (int i = sizeof(letters) - 1; i >= 0; --i) {\nprintf("%c", letters[i]);\n}\nreturn 0;\n}
```



5)

```
#include <stdio.h>\n/* height and width of a rectangle in inches */\nint width;\nint height;
```

```
int area;
int perimeter;

int main() {
    height = 7;
    width = 5;

    perimeter = 2*(height + width);
    printf("Perimeter of the rectangle = %d
inches\n", perimeter);

    area = height * width;
    printf("Area of the rectangle = %d square
inches\n", area);

    return(0);
}

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

```
int l,w;  
printf("Enter length: ");  
scanf("%i",&l);  
printf("Enter width: ");  
scanf("%i",&w);  
printf("Parameter of the rectangle is %i  
inches\nArea of the rectangle is %i  
inches\n",(2*(l+w)),(l*w));  
return 0;  
}
```

6)

```
#include <stdio.h>  
int main() {  
    int radius;  
    float area, perimeter;  
    radius = 6;  
  
    perimeter = 2*3.14*radius;  
    printf("Perimeter of the Circle = %f inches\n",  
    perimeter);  
}
```

```
    area = 3.14*radius*radius;
    printf("Area of the Circle = %f square
inches\n", area);
```

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

7)

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

```
int main()
```

```
{
```

```
    int a = 125, b = 12345;
```

```
    long ax = 1234567890;
```

```
    short s = 4043;
```

```
    float x = 2.13459;
```

```
    double dx = 1.1415927;
```

```
    char c = 'W';
```

```
    unsigned long ux = 2541567890;
```

```
    printf("a + c = %d\n", a + c);
```

```
    printf("x + c = %f\n", x + c);
```

```
    printf("dx + x = %f\n", dx + x);
```

```
printf("((int) dx) + ax = %ld\n", ((int) dx) +  
ax);
```

```
printf("a + x = %f\n", a + x);  
printf("s + b = %d\n", s + b);  
printf("ax + b = %ld\n", ax + b);  
printf("s + c = %hd\n", s + c);  
printf("ax + c = %ld\n", ax + c);  
printf("ax + ux = %lu\n", ax + ux);
```

```
return 0;  
}
```

```
8)  
#include <stdio.h>  
int main()  
{  
    int days, years, weeks;
```

```
    days = 1329;
```

```
// Converts days to years, weeks and days  
years = days/365;  
weeks = (days % 365)/7;
```

```
days = days - ((years*365) + (weeks*7));
```

```
printf("Years: %d\n", years);  
printf("Weeks: %d\n", weeks);  
printf("Days: %d \n", days);
```

```
return 0;
```

```
}
```

9)

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

```
int main()
```

```
{
```

```
    int x, y, sum;
```

```
    printf("\nInput the first integer: ");
```

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

```
    printf("\nInput the second integer: ");
```

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

```
    sum = x + y;
```

```
    printf("\nSum of the above two integers =  
%d\n", sum);
```

```
    return 0;
```

```
}
```


10)

```
#include <stdio.h>
int main()
{
    int x, y, result;
    printf("\nInput the first integer: ");
    scanf("%d", &x);
    printf("\nInput the second integer: ");
    scanf("%d", &y);
    result = x * y;
    printf("Product of the above two integers =
%d\n", result);
}
```

11)

```
#include <stdio.h>
int main()
{
    double wi1, ci1, wi2, ci2, result;
    printf("Weight - Item1: ");
    scanf("%lf", &wi1);
    printf("No. of item1: ");
```

```
scanf("%lf", &ci1);
printf("Weight - Item2: ");
scanf("%lf", &wi2);
printf("No. of item2: ");
scanf("%lf", &ci2);
result = ((wi1 * ci1) + (wi2 * ci2)) / (ci1 +
ci2);
printf("Average Value = %f\n", result);
return 0;
}
```

12)

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

```
int main()
{
    int x, y, z, result, max;
    printf("\nInput the first integer: ");
    scanf("%d", &x);
    printf("\nInput the second integer: ");
    scanf("%d", &y);
    printf("\nInput the third integer: ");
```

```
scanf("%d", &z);
result=(x+y+abs(x-y))/2;
max=(result+z+abs(result-z))/2;
printf("\nMaximum value of three integers:
%d", max);
printf("\n");
return 0;
}
```

```
#include <stdio.h>
int main() {
int x = 0,
y = 0,
z = 0,
output = 0;
puts("Enter three integers: ");
if (scanf("%i %i %i", &x, &y, &z) == 3) {
output = x;
if (y > output) output = y;
if (z > output) output = z;
printf("The greatest integer is %i\n", output);
} else {
puts("I could not read that");
}
```

```
}  
return 0;  
}
```

13)

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

```
int main()  
{
```

```
    int x, y, z, result, max;  
    printf("\nInput the first integer: ");  
    scanf("%d", &x);  
    printf("\nInput the second integer: ");  
    scanf("%d", &y);  
    printf("\nInput the third integer: ");  
    scanf("%d", &z);  
    result=(x+y+abs(x-y))/2;  
    max=(result+z+abs(result-z))/2;  
    printf("\nMaximum value of three integers:  
%d", max);  
    printf("\n");
```

```
    return 0;  
}
```

```
#include <stdio.h>  
int main(void) {  
    int i, j, k;  
    printf("Enter input value (-- -- --): ");  
    scanf("%d %d %d", &i, &j, &k);  
    if(i > j && i > k) {  
        printf("%d is greater than %d and %d\n", i, j, k);  
    } else if(j > i && j > k) {  
        printf("%d is greater than %d and %d\n", j, i, k);  
    } else if(k > j && k > i) {  
        printf("%d is greater than %d and %d\n", k, j, i);  
    } else {  
        printf("ERROR: Failed to read data!\n");  
    }  
    return 0;  
}
```

14)

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

```
int main()
{
    int x;
    float y;
    printf("Input total distance in km: ");
    scanf("%d",&x);
    printf("Input total fuel spent in liters: ");
    scanf("%f", &y);
    printf("Average consumption (km/lt) %.3f",x/y);
    printf("\n");
    return 0;
}
```

15)

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

```
#include <math.h>
```

```
int main() {
    float x1, y1, x2, y2, gdistance;
    printf("Input x1: ");
    scanf("%f", &x1);
    printf("Input y1: ");
```

```
scanf("%f", &y1);
    printf("Input x2: ");
scanf("%f", &x2);
printf("Input y2: ");
scanf("%f", &y2);
gdistance = ((x2-x1)*(x2-x1))+((y2-
y1)*(y2-y1));
    printf("Distance between the said points:
%.4f", sqrt(gdistance));
    printf("\n");
    return 0;
}
```

16)

```
#include <stdio.h>
int main() {
    int amt, total;
    printf("Input the amount: ");
    scanf("%d",&amt);
    total = (int)amt/100;
    printf("There are: ");
    printf("\n%d Note(s) of 100.00\n", total);
    amt = amt-(total*100);
}
```

```
total = (int)amt/50;
printf("%d Note(s) of 50.00\n", total);
amt = amt-(total*50);
total = (int)amt/20;
printf("%d Note(s) of 20.00\n", total);
amt = amt-(total*20);
total = (int)amt/10;
printf("%d Note(s) of 10.00\n", total);
amt = amt-(total*10);
total = (int)amt/5;
printf("%d Note(s) of 5.00\n", total);
amt = amt-(total*5);
total = (int)amt/2;
printf("%d Note(s) of 2.00\n", total);
amt = amt-(total*2);
total = (int)amt/1;
printf("%d Note(s) of 1.00\n", total);
return 0;
}
```

17)

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

```
int main() {
```



```
int sec, h, m, s;
printf("Input seconds: ");
scanf("%d", &sec);
h = (sec/3600);
m = (sec -(3600*h))/60;
s = (sec -(3600*h)-(m*60));
printf("H:M:S - %d:%d:%d\n",h,m,s);
return 0;
}

18)
#include <stdio.h>
int main() {
    int ndays, y, m, d;
    printf("Input no. of days: ");
    scanf("%d", &ndays);
    y = (int) ndays/365;
    ndays = ndays-(365*y);
    m = (int)ndays/30;
    d = (int)ndays-(m*30);
    printf(" %d Year(s) \n %d Month(s) \n %d
Day(s)", y, m, d);
    return 0;
```

```
}
```

19)

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

```
int main() {
```

```
    int p, q, r, s;
```

```
    printf("\nInput the first integer: ");
```

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

```
    printf("\nInput the second integer: ");
```

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

```
    printf("\nInput the third integer: ");
```

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

```
    printf("\nInput the fourth integer: ");
```

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

```
    if((q > r) && (s > p) && ((r+s) > (p+q)) &&  
    (r > 0) && (s > 0) && (p%2 == 0))  
    {
```

```
        printf("\nCorrect values\n");
```

```
    }
```

```
    else {
```

```
        printf("\nWrong values\n");
```

```
    }  
    return 0;  
}
```

20)

```
#include <stdio.h>  
#include <math.h>  
int main() {  
    double a, b, c, pr1;  
    printf("\nInput the first number(a): ");  
    scanf("%lf", &a);  
    printf("\nInput the second number(b): ");  
    scanf("%lf", &b);  
    printf("\nInput the third number(c): ");  
    scanf("%lf", &c);  
  
    pr1 = (b*b) - (4*(a)*(c));  
  
    if(pr1 > 0 && a != 0) {  
        double x, y;  
        pr1 = sqrt(pr1);  
        x = (-b + pr1)/(2*a);  
        y = (-b - pr1)/(2*a);
```

```
        printf("Root1 = %.5lf\n", x);
        printf("Root2 = %.5lf\n", y);
    }
    else
    {
        printf("\nImpossible to find the
roots.\n");
    }
    return 0;
}

21)
#include <stdio.h>

int main() {
    int x;
    printf("\nInput an intger: ");
    scanf("%d", &x);
    if(x >= 0 && x <= 20)
    {
        printf("Range [0, 20]\n");
    }
}
```

```
else if(x >=21 && x <= 40)
{
    printf("Range (25,50]\n");
}
else if(x >=41 && x <= 60)
{
    printf("Range (50,75]\n");
}
else if(x >61 && x <= 80) {
    printf("Range (61,80]\n");
}
else
{
    printf("Outside the range\n");
}
return 0;
}
```

22)

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

```
int main() {
    int j, numbers[5],total=0;
```

```
    printf("\nInput the first number: ");
    scanf("%d", &numbers[0]);
    printf("\nInput the second number: ");
    scanf("%d", &numbers[1]);
    printf("\nInput the third number: ");
    scanf("%d", &numbers[2]);
    printf("\nInput the fourth number: ");
    scanf("%d", &numbers[3]);
    printf("\nInput the fifth number: ");
    scanf("%d", &numbers[4]);
    for(j = 0; j < 5; j++) {
        if((numbers[j] % 2) != 0) {
            total += numbers[j];
        }
    }
    printf("\nSum of all odd values: %d", total);
    printf("\n");
    return 0;
}
```

23) #include <stdio.h>

```
int main() {
```

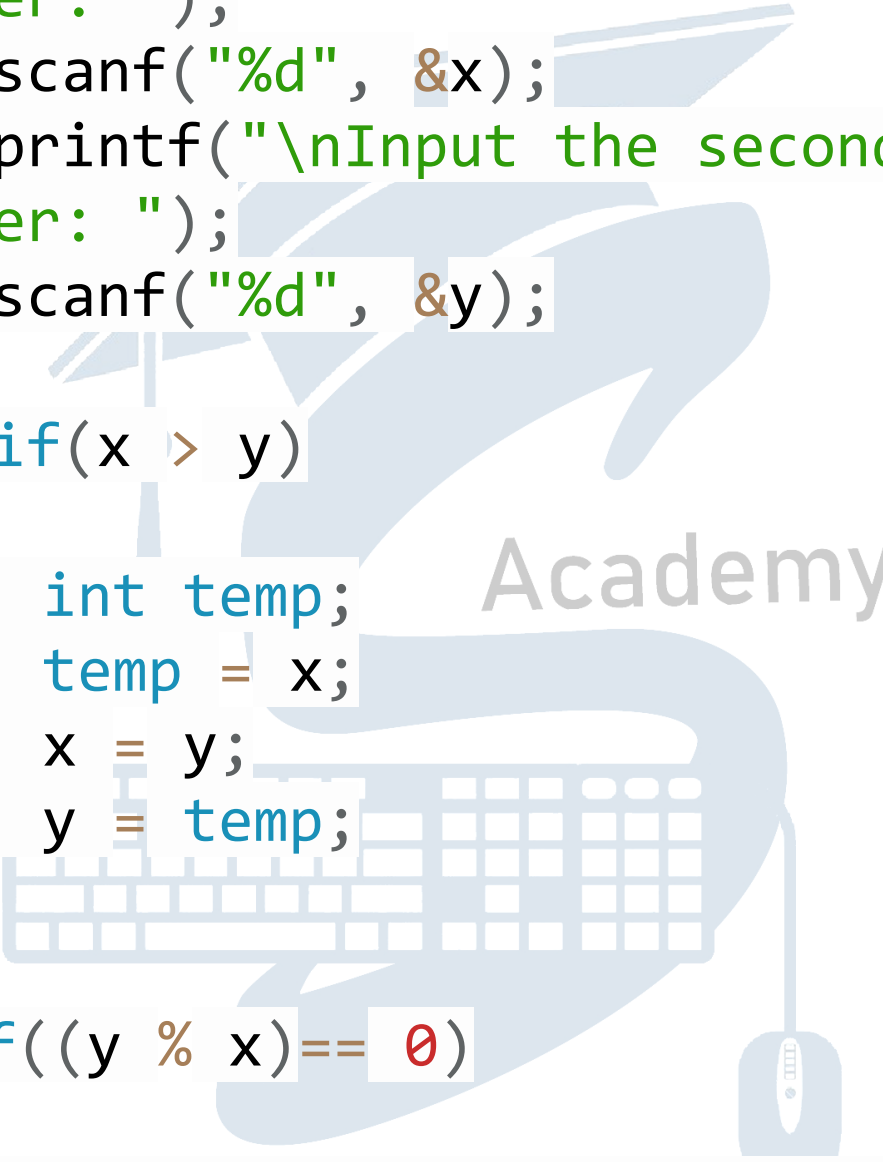
```
float x, y, z, P, A;
printf("\nInput the first number: ");
scanf("%f", &x);
printf("\nInput the second number: ");
scanf("%f", &y);
printf("\nInput the third number: ");
scanf("%f", &z);

if(x < (y+z) && y < (x+z) && z < (y+x))
{
    P = x+y+z;
    printf("\nPerimeter = %.1f\n", P);
}
else
{
    printf("Not possible to create a triangle..!");
}
}
```

24)

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

```
int main() {  
    int x, y;  
    printf("\nInput the first  
number: ");  
    scanf("%d", &x);  
    printf("\nInput the second  
number: ");  
    scanf("%d", &y);  
  
    if(x > y)  
    {  
        int temp;  
        temp = x;  
        x = y;  
        y = temp;  
    }  
  
    if((y % x) == 0)  
    {  
        printf("\nMultiplied!\n");  
    }  
    else
```



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```
    {  
        printf("\nNot Multiplied!\n");  
    }  
  
    return 0;  
}  
  
25) #include <stdio.h>  
  
int main() {  
    int mno;  
    printf("\nInput a number between  
1 to 12 to get the month name: ");  
    scanf("%d", &mno);  
    switch(mno) {  
        case 1 : printf("January\n");  
break;  
        case 2 : printf("February\n");  
break;  
        case 3 : printf("March\n");  
break;  
    }
```

```
        case 4 : printf("April\n");
break;
        case 5 : printf("May\n");
break;
        case 6 : printf("June\n");
break;
        case 7 : printf("July\n");
break;
        case 8 : printf("August\n");
break;
        case 9 :
printf("September\n"); break;
        case 10 : printf("October\n");
break;
        case 11 :
printf("November\n"); break;
        case 12 :
printf("December\n"); break;
        default : printf("Input a
number between 1 to 12.");
    }
    return 0;
```

```
}
```

```
26)
```

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

```
int main() {  
    int i;  
    printf("Even numbers between 1  
to 50 (inclusive):\n");  
    for (i = 1; i <= 50; i++)  
    {  
        if(i%2 == 0)  
        {  
            printf("%d ", i);  
        }  
    }  
    return 0;  
}
```

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

```
for (i = 2; i <= 50; i += 2){  
    printf("%d ",i);  
}  
return 0;  
}
```

27)

```
#include <stdio.h>  
int main() {  
    float numbers[5];  
    int j, pctr=0, nctr=0;  
    printf("\nInput the first  
number: ");  
    scanf("%f", &numbers[0]);  
    printf("\nInput the second  
number: ");  
    scanf("%f", &numbers[1]);  
    printf("\nInput the third  
number: ");  
    scanf("%f", &numbers[2]);  
    printf("\nInput the fourth  
number: ");  
    scanf("%f", &numbers[3]);
```

```
printf("\nInput the fifth  
number: ");  
scanf("%f", &numbers[4]);  
for(j = 0; j < 5; j++) {  
    if(numbers[j] > 0)  
    {  
        pctr++;  
    }  
    else if(numbers[j] < 0)  
    {  
        nctr++;  
    }  
}  
printf("\nNumber of positive  
numbers: %d", pctr);  
printf("\nNumber of negative  
numbers: %d", nctr);  
printf("\n");  
return 0;  
}
```

28)

```
#include <stdio.h>
int main() {
    float numbers[5], total=0, avg;
    int j, pctr=0;
    printf("\nInput the first
number: ");
    scanf("%f", &numbers[0]);
    printf("\nInput the second
number: ");
    scanf("%f", &numbers[1]);
    printf("\nInput the third
number: ");
    scanf("%f", &numbers[2]);
    printf("\nInput the fourth
number: ");
    scanf("%f", &numbers[3]);
    printf("\nInput the fifth
number: ");
    scanf("%f", &numbers[4]);
    for(j = 0; j < 5; j++) {
        if(numbers[j] > 0)
```

```
        {
            pctr++;
            total += numbers[j];
        }
    }
    avg = total/pctr;
    printf("\nNumber of positive
numbers: %d", pctr);
    printf("\nAverage value of the
said positive numbers: %.2f", avg);
    printf("\n");
    return 0;
}
```

```
29)
#include <stdio.h>
int main() {
    int j, numbers[5], total=0;
    printf("\nInput the first
number: ");
    scanf("%d", &numbers[0]);
```

```
    printf("\nInput the second
number: ");
    scanf("%d", &numbers[1]);
    printf("\nInput the third
number: ");
    scanf("%d", &numbers[2]);
    printf("\nInput the fourth
number: ");
    scanf("%d", &numbers[3]);
    printf("\nInput the fifth
number: ");
    scanf("%d", &numbers[4]);
    for(j = 0; j < 5; j++) {
        if((numbers[j]%2) != 0)
        {
            total += numbers[j];
        }
    }
    printf("\nSum of all odd
values: %d", total);
    return 0;
}
```


30)

```
#include <stdio.h>

int main() {
    int x, i;
    printf("Input an integer: ");
    scanf("%d", &x);
    printf("List of square of each
one of the even values from 1 to a
%d :\n", x);
    for(i = 2; i <= x; i++) {
        if((i%2) == 0) {
            printf("%d^2 = %d\n", i,
i*i);
        }
    }

    return 0;
}
```

31)

```
#include <stdio.h>
int main() {
    int x;
    printf("Input an integer: ");
    scanf("%d", &x);

    if(x == 0){
        printf("Positive\n");
    }
    else if(x < 0 && (x%2) != 0)
    {
        printf("Negative Odd\n");
    }
    else if(x < 0 && (x%2) == 0)
    {
        printf("Negative Even\n");
    }
    else if(x > 0 && (x%2) != 0)
    {
        printf("Positive Odd\n");
    }
}
```

```
    }  
    else if(x > 0 && (x%2) == 0)  
    {  
        printf("Positive Even\n");  
    }  
    return 0;  
}  
  
32) #include <stdio.h>  
int main() {  
    int x, i;  
    printf("Input an integer: ");  
    scanf("%d", &x);  
    for(i = 1; i <= 500; i++)  
    {  
        if((i%x) == 3) {  
            printf("%d\n", i);  
        }  
    }  
}
```

```
    return 0;  
}
```

33)

```
#include <stdio.h>  
#define MAX 5  
  
int main()  
{  
    int number[MAX], i, j, max=0,  
    num_pos=0;  
    printf("Input 5 integers: \n");  
    for(i = 0; i < MAX; i++) {  
        scanf(" %d", &number[i]);  
    }  
    for(j = 0; j < MAX; j++)  
    {  
        if(number[j] > max) {  
            max = number[j];  
            num_pos = j;  
        }  
    }  
}
```

```
    }  
    printf("Highest value:  
%d\nPosition: %d\n", max,  
num_pos+1);  
    return 0;  
}  
  
34)  
#include <stdio.h>  
int main()  
{  
    int x, y, i, total = 0;  
    printf("\nInput a  
pair of numbers (for example  
10,2):");  
    printf("\nInput first number of  
the pair: ");  
    scanf("%d", &x);  
    printf("\nInput second  
number of the pair: ");  
    scanf("%d", &y);  
    if (x<y)
```

```
{
    return 0;
}
printf("\nList of odd numbers:
");
for(i = y; i<=x; i++)
{
    if ((i%2) != 0)
    {
        printf("%d\n", i);
        total += i;
    }
}
printf("Sum=%d\n", total);

return 0;
}
```

35)

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

```
int main()
{
    int x, y, i, total = 0;
    printf("\nInput a pair of
numbers (for example 10,2 :
2,10):");
    printf("\nInput first number of
the pair: ");
    scanf("%d", &x);
    printf("\nInput second number
of the pair: ");
    scanf("%d", &y);

    if (x>y)
    {
        printf("The pair is in
descending order!");
    }
    else
    {
        printf("The pair is in
ascending order!");
    }
}
```

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

36)

```
#include <stdio.h>  
int main() {  
    int pass, x=10;  
    while (x!=0)  
    {  
        printf("\nInput the password:  
");  
        scanf("%d",&pass);  
        if (pass==1234)  
        {  
            printf("Correct password");  
            x=0;  
        }  
        else  
        {
```



```
        printf("Wrong password, try  
another");  
    }  
    printf("\n");  
    }  
    return 0;  
}
```

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

```
int main(void) {
```

```
/* Local Variable Declaration */
```

```
int password, tries = 1;
```

```
do {
```

```
printf("Enter password: ");
```

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

```
switch(password) {
```

```
case 1234:
```

```
/* Correct Password */
```

```
printf("Correct Password!\n");
```

```
return 0;
```

```
break;
```

default:

```
/* Print Error Message */  
printf("Incorrect Password!\nTry again! (try  
no. %d)\n", tries);  
break;  
}  
tries++;  
} while(tries != 4);  
return 0;  
}
```

```
37)  
#include <stdio.h>  
int main()  
{  
    int x, y;  
    printf("Input the  
Coordinate(x,y): ");  
    printf("\nx: ");  
    scanf("%d", &x);  
    printf("y: ");  
    scanf("%d", &y);
```

```
    if(x > 0 && y > 0)
    {
        printf("Quadrant-I(+,+)\n");
    }
    else if(x > 0 && y < 0)
    {
        printf("Quadrant-II(+,-)\n");
    }
    else if(x < 0 && y < 0)
    {
        printf("Quadrant-III(-,-)\n");
    }
    else if(x < 0 && y > 0)
    {
        printf("Quadrant-IV(-,+)\n");
    }
    return 0;
```

```
}
```

38)

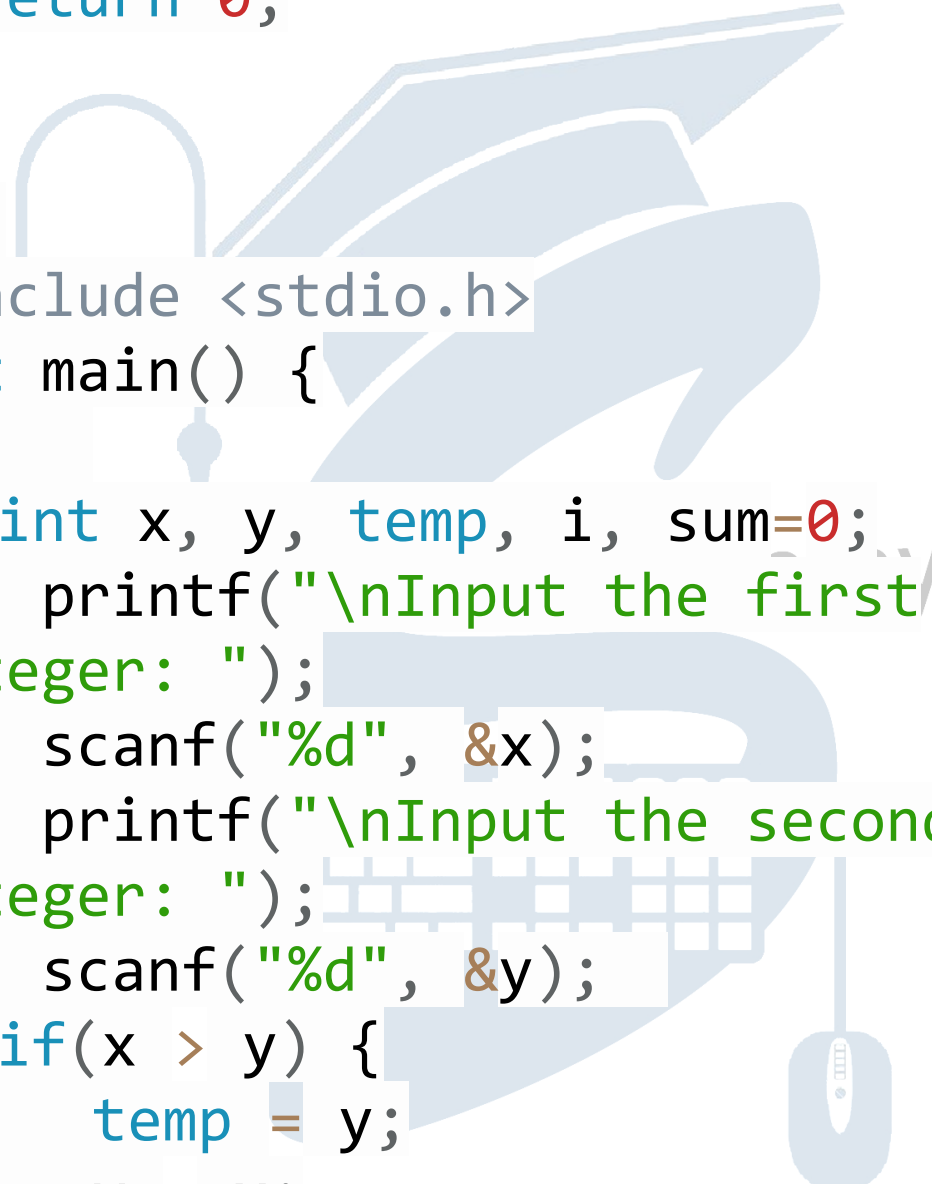
```
#include <stdio.h>
int main() {
    int x, y;
    float div_result;
    printf("Input two numbers: ");
    printf("\nx: ");
    scanf("%d", &x);
    printf("y: ");
    scanf("%d", &y);

    if(y != 0)
    {
        div_result =
(float)x/(float)y;
        printf("%.1f\n", div_result);
    }
    else
    {
```

```
        printf("Division not
possible.\n");
    }
    return 0;
}

39)
#include <stdio.h>
int main() {

    int x, y, temp, i, sum=0;
    printf("\nInput the first
integer: ");
    scanf("%d", &x);
    printf("\nInput the second
integer: ");
    scanf("%d", &y);
    if(x > y) {
        temp = y;
        y = x;
        x = temp;
    }
```



```
        for(i = x; i <= y; i++) {
            if((i % 17) != 0) {
                sum += i;
            }
        }
        printf("\nSum: %d\n", sum);
        return 0;
    }
}

40)
#include <stdio.h>
int main() {
    int x, y, temp, i, sum=0;
    printf("\nInput the first
integer: ");
    scanf("%d", &x);
    printf("\nInput the second
integer: ");
```

```
scanf("%d", &y);
if(x > y)
{
    temp = y;
    y = x;
    x = temp;
}
for(i = x+1; i < y; i++)
{
    if((i%7) == 2 || (i%7) == 3) {
        printf("%d\n", i);
    }
}
return 0;
}
```

41)

```
#include <stdio.h>
int main() {
    int a, i, j = 1, x = 0;
```

```
    printf("Input number of lines:");
    ");
    scanf("%d", &a);
    for(i = 1; i <= a; i++) {
        while(x < 3) {
            printf("%d ", j++);
            x++;
        }
        x = 0;
        printf("\n");
    }
    return 0;
}
```

```
42)
#include <stdio.h>
int main() {
    int a, i, j = 1, x = 0;
    printf("Input number of lines:");
    ");
    scanf("%d", &a);
```



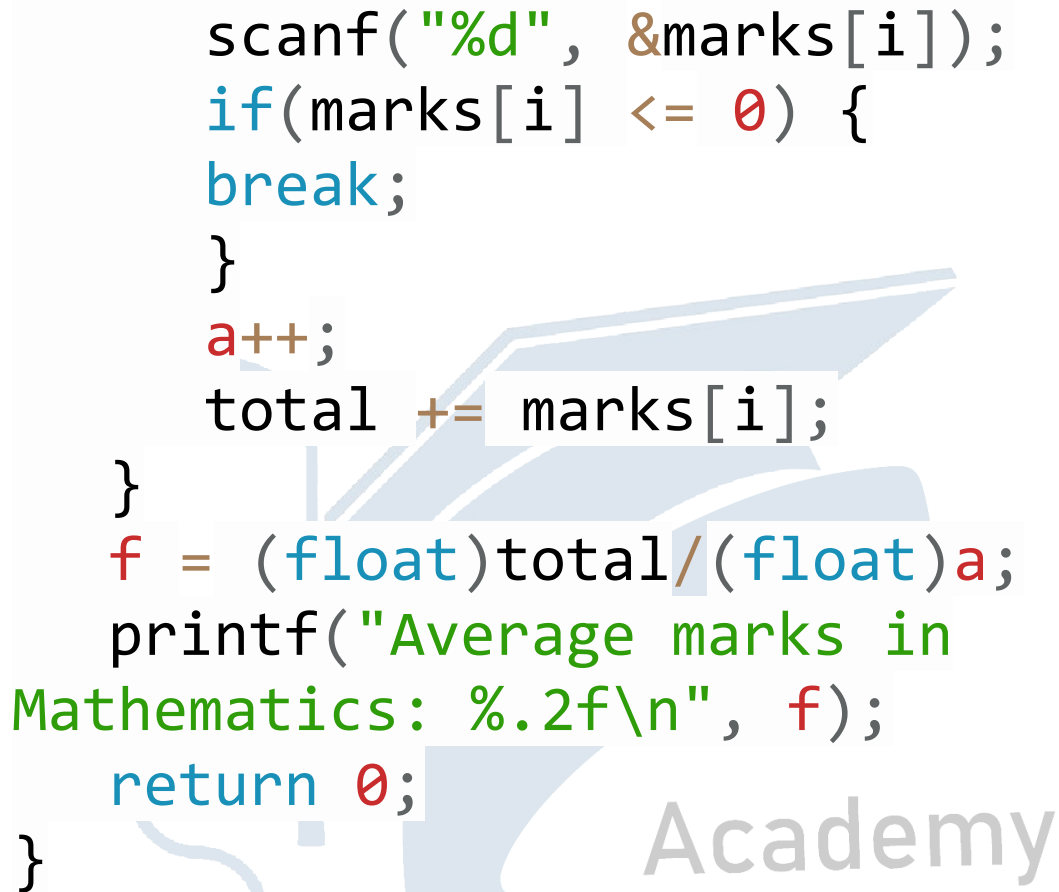
```
        for(i = 1; i <= a; i++) {  
            printf("%d %d %d\n", i, i*i,  
i*i*i);  
        }  
    return 0;  
}  
43)  
#include <stdio.h>  
int main() {  
    int x, y, i, j, l;  
    printf("Input number of lines:  
");  
    scanf("%d", &x);  
    printf("Number of characters in  
a line: ");  
    scanf("%d", &y);  
    for(i = 1, l=1; i <= x; i++)  
    {
```

```
        for(j = 1; j <= y; j++)
        {
            printf("%d ",l);
            l++;
        }
        printf("\n");
    }

    return 0;
}

44)
#include <stdio.h>
int main()
{
    int marks[99], m, i, a=0,
total=0;
    float f;
    printf("Input Mathematics marks
(0 to terminate): ");
    for(i = 0; ; i++)
    {
```

```
scanf("%d", &marks[i]);  
if(marks[i] <= 0) {  
break;  
}  
a++;  
total += marks[i];  
}  
f = (float)total/(float)a;  
printf("Average marks in  
Mathematics: %.2f\n", f);  
return 0;  
}
```



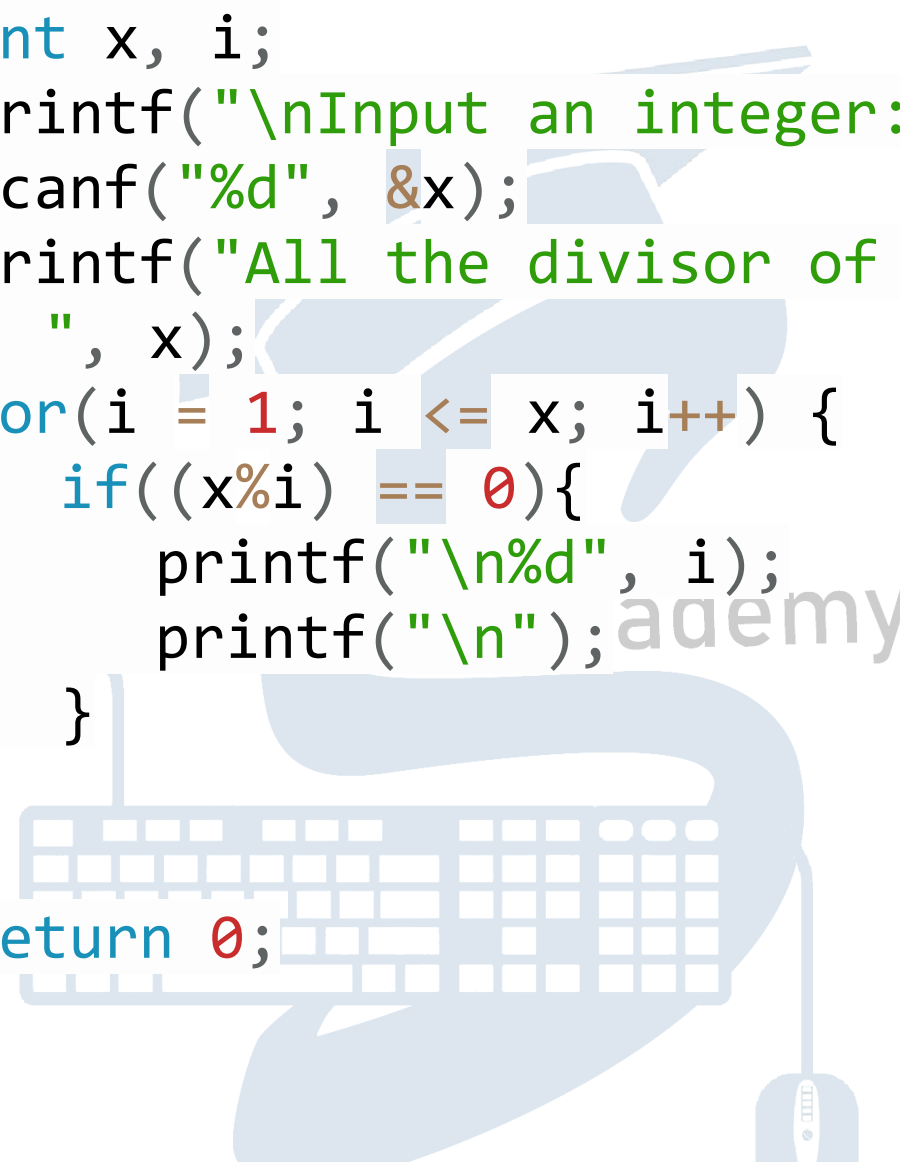
```
45)  
#include <stdio.h>  
int main() {  
float S = 0;  
int i;  
for(i=1; i<=50; i++)  
{  
S += (float)1/i;  
}  
}
```

```
    printf("Value of S: %.2f\n",  
S);
```

```
    return 0;  
}  
  
46) #include <stdio.h>  
int main() {  
    double s=0, j=1, d, i;  
    for(i=1; i<=7; i+=2){  
        d = (i/j);  
        s += d;  
        j = j*2;  
    }  
    printf("Value of series:  
%.2lf\n", s);  
    return 0;  
}
```

47)

```
#include <stdio.h>
int main() {
    int x, i;
    printf("\nInput an integer: ");
    scanf("%d", &x);
    printf("All the divisor of %d
are: ", x);
    for(i = 1; i <= x; i++) {
        if((x%i) == 0){
            printf("\n%d", i);
            printf("\n");
        }
    }
    return 0;
}
```



48)

```
#include <stdio.h>
int main() {
    int n[5], i, x;
```

```
printf("Input the 5 members of
the array:\n");
for(i = 0; i < 5; i++)
{
    scanf("%d", &x);
    if(x>0)
    {
        n[i] = x;
    }
    else
    {
        n[i] = 100;
    }
}
printf("Array values are: \n");
for(i = 0; i < 5; i++) {
    printf("n[%d] = %d\n", i,
n[i]);
}
return 0;
}
```

49)

```
#include <stdio.h>
int main() {
    int n[5], i, x;
    printf("Input the first number
of the array:\n");

    scanf("%d", &x);
    for(i = 0; i < 5; i++)
    {
        n[i] = x;
        x = 3*x;
    }

    for(i = 0; i < 5; i++)
    {
        printf("n[%d] = %d\n", i,
n[i]);
    }
    return 0;
}
```

50)

```
#include <stdio.h>
#include <string.h>
#define AL 5
#define MAX 5

int main() {
    float N[AL];
    int i;
    printf("Input the 5 members of
the array:\n");
    for(i = 0; i < AL; i++) {
        scanf("%f", &N[i]);
    }
    for(i = 0; i < AL; i++) {
        if(N[i] < MAX) {
            printf("A[%d] = %.1f\n", i,
N[i]);
        }
    }
    return 0;
}
```


51)

```
#include <stdio.h>
#define AL 5

int main() {
    int array_n[AL], i, temp;

    printf("Input the 5 members of
the array:\n");
    for(i = 0; i < AL; i++) {
        scanf("%d", &array_n[i]);
    }

    for(i = 0; i < AL; i++) {
        if(i < (AL/2)) {
            temp = array_n[i];
            array_n[i] = array_n[AL -
(i+1)];
            array_n[AL - (i+1)] = temp;
        }
    }
}
```

```
        for(i = 0; i < AL; i++) {  
            printf("array_n[%d] = %d\n",  
i, array_n[i]);  
        }  
        return 0;  
    }  
52)  
#include <stdio.h>  
int main() {  
    int e, i, sval, position;  
  
    printf("\nInput the length of  
the array: ");  
    scanf("%d", &e);  
  
    int v[e];  
    printf("\nInput the array  
elements:\n ");  
    for(i = 0; i < e; i++) {  
        scanf("%d", &v[i]);
```

```
}
sval = v[0];
position = 0;
for(i = 0; i < e; i++) {
    if(sval > v[i]) {
        sval = v[i];
        position = i;
    }
}

printf("Smallest Value: %d\n",
sval);
printf("Position of the element:
%d\n", position);
return 0;
}
```

