

```
#include<stdio.h>
#include<math.h>
int main()
{
    float a,b,c,dis,r1,r2;
    printf ("\nQuadratic Equation is of the form:  $ax^2 + bx + c = 0$  \n");
    printf("\nEnter the values of a, b and c: ");
    scanf("%f %f %f",&a,&b,&c);
    dis = pow(b,2) - 4*a*c;
    if(dis < 0)
    {
        printf("\nThe roots are imaginary.\n\n");
        printf("Root1=%.3f%+.3fi",-b/(2*a),sqrt(-dis)/(2*a));
        printf("\nRoot2=%.3f%+.3fi\n",-b/(2*a),-sqrt(-dis)/(2*a));
    }
    else
    {
        r1 = (-b + sqrt(dis))/(2.0*a);
        r2 = (-b - sqrt(dis))/(2.0*a);
        printf("\nThe first root is = %f\nThe second root is = %f\n",r1,r2);
    }
    return 0;
}
```

```
#include<stdio.h>
#include<conio.h>
void main( )
{
    int num,sum=0,rev=0,d;
    printf("Enter the number: ");
    scanf("%d",&num);

    while(num>0)
    {
        d=num%10;
        num=num/10;
        sum=sum+d;
        rev=rev*10+d;
    }
    printf("Sum of digits = %d",sum);
    printf("\nReverse of the number = %d",rev);
    getch( );
}
```

```
#include <stdio.h>

void countNumbers(int numbers[], int n) {
    int positiveCount = 0, negativeCount = 0, zeroCount = 0;
    for (int i = 0; i < n; i++) {
        if (numbers[i] > 0)
            positiveCount++;
        else if (numbers[i] < 0)
            negativeCount++;
        else
            zeroCount++;
    }
    printf("Positive numbers: %d\n", positiveCount);
    printf("Negative numbers: %d\n", negativeCount);
    printf("Zeroes: %d\n", zeroCount);
}

int main() {
    int numbers[100];
    int n;
    printf("Enter the number of elements: ");
    scanf("%d", &n);
    printf("Enter the numbers: ");
    for (int i = 0; i < n; i++)
        scanf("%d", &numbers[i]);
    countNumbers(numbers, n);
    return 0;
}
```

```
#include <stdio.h>
#include <conio.h>
int main() {
    int i, space, rows, k = 0;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = 1; i <= rows; ++i, k = 0) {
        for (space = 1; space <= rows - i; ++space) {
            printf(" ");
        }
        while (k != 2 * i - 1) {
            printf("* ");
            ++k;
        }
        printf("\n");
    }
    getch();
}
```

```
#include <stdio.h>
#include <conio.h>
void main(){
    int num,r,sum,temp;
    int stno,enno;
    printf("Input starting number of range: ");
    scanf("%d",&stno);
    printf("Input ending number of range : ");
    scanf("%d",&enno);
    printf("Armstrong numbers in given range are: ");
    for(num=stno;num<=enno;num++){
        temp=num;
        sum = 0;
        while(temp!=0){
            r=temp % 10;
            temp=temp/10;
            sum=sum+(r*r*r);
        }
        if(sum==num)
            printf("%d ",num);
    }
    printf("\n");
    getch();
}
```