Write a program to find the sum of digits of N digit number (sum should be single digit) Sample Input: Enter N value : 3 Enter 3 digit number: 143 Sample Output: Sum of 3 digit number: 8

```
class HelloWorld {
    public static void main(String[] args) {
        int n=143;
        int sum=0;
        while(n!=0)
        {
            int rem=n%10;
            sum=sum+rem;
            n=n/10;
        }
        System.out.println(sum);
    }
}
```

Write a program to find the square root of a perfect square number(print both the positive and negative values) Sample Input: Enter the number : 6561 Sample Output: Square Root: 81, -81

```
class HelloWorld {
    public static void main(String[] args) {
        double n=6561;
        double sqrt=Math.pow(n,0.5);
        double sq=Math.sqrt(n);
        System.out.println(sqrt+","+"-"+sqrt);
    }

}
```

Write a program for matrix multiplication? Sample Input: Mat1 = 1 2 5 3 Mat2 = 2 3 4 1 Sample Output: Mat Sum = 10 5 22 18

```
class HelloWorld {
    public static void main(String[] args) {
        int r=2;
        int c=2;
        int mat1[][]={{1,1},{2,2}};
        int mat2[][]={{2,2},{1,1}};
```

```
        int sum[][]={{0,0},{0,0}};
        for(int i=0;i<r;i++)
        {
            for(int j=0;j<c;j++)
            {
                sum[i][j]=0;
                for(int k=0;k<c;k++)
                {
                    sum[i][j] = sum[i][j] +(mat1[i][k]*mat2[k][j]);
                }
                System.out.print(sum[i][j] + "\t");
            }
            System.out.println();
        }
    }
}
```

Write a program to print inverted pyramid pattern.

```
class HelloWorld {
    public static void main(String[] args) {
        int n=4;
        for(int i=n;i>=1;i--)
        {
            for(int j=0;j<n-i;j++)
            {
                System.out.print(" ");
            }
            for(int k=1;k<=i;k++)
            {
                System.out.print(" *");
            }
            System.out.println();
        }
    }
}
```