

Strings and arrays :

Matrix addition:

Main.java	Output
<pre>1- import java.util.Scanner; 2- class HelloWorld { 3- public static void main(String[] args) { 4 Scanner input = new Scanner(System.in); 5 int mat1[][]={{1,2},{5,3}}; 6 int mat2[][]={{2,3},{4,1}}; 7 int mat_sum[][]=new int[2][2]; 8 int len=mat1.length; 9 for(int i=0;i<len;i++) 10 { 11 for(int j=0;j<len;j++) 12 { 13 mat_sum[i][j]=mat1[i][j]+mat2[i][j]; 14 System.out.print(mat_sum[i][j]+"\\t"); 15 } 16 System.out.println(); 17 } 18 } 19 }</pre>	<pre>java -cp /tmp/AuiJfsLbEh/HelloWorld 3 5 9 4 === Code Execution Successful ===</pre>

Matrix multiplication:

Main.java	Output
<pre>4 Scanner input=new Scanner(System.in); 5 int r=input.nextInt(); 6 int c=input.nextInt(); 7 int mat1[][]=new int[r][c]; 8 int mat2[][]=new int[r][c]; 9 for(int i=0;i<r;i++) 10 { 11 for(int j=0;j<c;j++) 12 { 13 mat1[i][j]=input.nextInt(); 14 } 15 } 16 for(int i=0;i<r;i++) 17 { 18 for(int j=0;j<c;j++) 19 { 20 mat2[i][j]=input.nextInt(); 21 } 22 } 23 int sum[][]=new int[r][c]; 24 for(int i=0;i<r;i++) 25 { 26 for(int j=0;j<c;j++) 27 { 28 sum[i][j]=0; 29 for(int k=0;k<c;k++) 30 { 31 sum[i][j] = sum[i][j] +(mat1[i][k]*mat2[k][j]); 32 } 33 System.out.print(sum[i][j] + "\\t"); 34 } 35 System.out.println(); 36 } 37 }</pre>	<pre>java -cp /tmp/Yftk7hHSvn/HelloWorld 3 3 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 30 36 42 66 81 96 102 126 150 === Code Execution Successful ===</pre>

Vowel count:

Main.java	Output
<pre>1- import java.util.Scanner; 2- class HelloWorld { 3- public static void main(String[] args) { 4 Scanner input=new Scanner(System.in); 5 String name=input.nextLine(); 6 int len=name.length(); 7 char a[]=new char[len]; 8 int vow=0; 9 for(int i=0;i<len;i++) 10- { 11 a[i]=name.charAt(i); 12 if(a[i]=='a' a[i]=='e' a[i]=='i' a[i]=='o' a[i]=='u' 13 a[i]=='A' a[i]=='E' a[i]=='I' a[i]=='O' a[i]=='U') 14 vow=vow+1; 15 } 16 System.out.println(vow); 17 } 18 }</pre>	<pre>java -cp /tmp/pbej60J17p/HelloWorld kongarasai\ 5 === Code Execution Successful ===</pre>

Print vowel and consonant:

<pre>2- class HelloWorld { 3- public static void main(String[] args) { 4 Scanner input=new Scanner(System.in); 5 String name=input.nextLine(); 6 int len=name.length(); 7 char a[]=new char[len]; 8 char vow[]=new char[len]; 9 char con[]=new char[len]; 10 int v=0,c=0; 11 for(int i=0;i<len;i++) 12- { 13 a[i]=name.charAt(i); 14 if(a[i]=='a' a[i]=='e' a[i]=='i' a[i]=='o' a[i]=='u' 15- a[i]=='A' a[i]=='E' a[i]=='I' a[i]=='O' a[i]=='U') { 16 vow[v] = a[i]; 17 v++; 18 } 19- else { 20 con[c] = a[i]; 21 c++; 22 } 23 } 24 System.out.print("Consonants: "); 25 for(int i=0;i<v;i++) 26- { 27 System.out.print(vow[i]); 28 } 29 System.out.print("\nvowels: "); 30 for(int j=0;j<c;j++) 31- { 32 System.out.print(con[j]);</pre>	<pre>java -cp /tmp/yVhzolwx9b/HelloWorl kongarasai Consonants: oaaaI vowels: kngrs === Code Execution Successful ===</pre>
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Replace vowel:

Main.java	Output
<pre>1- import java.util.Scanner; 2- class HelloWorld { 3- public static void main(String[] args) { 4- Scanner input=new Scanner(System.in); 5- String name=input.nextLine(); 6- String n1=name.replaceAll("[aeiouAEIOU]",""); 7- System.out.println(n1); 8- } 9- }</pre>	<pre>java -cp /tmp/xJweHzLeiy/HelloWorld kongarasai kngrs === Code Execution Successful ===</pre>

Increasing alphabet order:

Main.java	Output
<pre>1- import java.util.Scanner; 2- import java.util.Arrays; 3- public class ak 4- { 5- public static void main(String args[]) 6- { 7- Scanner input=new Scanner(System.in); 8- String name=input.nextLine(); 9- int len=name.length(); 10- char arr[]=new char[len]; 11- String Alpha; 12- for(int i=0;i<len;i++) 13- { 14- arr[i]=name.charAt(i); 15- } 16- Arrays.sort(arr); 17- for(int i=len-1;i>=0;i--) 18- { 19- System.out.print(arr[i]+" "); 20- } 21- } 22- }</pre>	<pre>java -cp /tmp/8l41m0hePz/ak kongarasai s r o n k i g a a a === Code Execution Successful ===</pre>

Matrix multiplication:

```
Main.java  Run  Output

9  int mat1[][]=new int[r][c];
10 int mat2[][]=new int[r][c];
11 for(int i=0;i<r;i++)
12 {
13     for(int j=0;j<c;j++)
14     {
15         mat1[i][j]=input.nextInt();
16     }
17 }
18 for(int i=0;i<r;i++)
19 {
20     for(int j=0;j<c;j++)
21     {
22         mat2[i][j]=input.nextInt();
23     }
24 }
25 int sum[][]=new int[r][c];
26 for(int i=0;i<r;i++)
27 {
28     for(int j=0;j<c;j++)
29     {
30         sum[i][j]=0;
31         for(int k=0;k<c;k++)
32         {
33             sum[i][j] = sum[i][j] +(mat1[i][k]*mat2[k][j]);
34         }
35         System.out.print(sum[i][j] + "\t");
36     }
37     System.out.println();
}
```

```
java -cp /tmp/1d8RfMGSV3/HelloWorld
3
3
1 2 3
1 2 3
1 2 3
4 5 6
4 5 6
4 5 6
24 30 36
24 30 36
24 30 36

=== Code Execution Successful ===
```

Finding word:

```
Main.java  Run  Output

1 import java.util.Scanner;
2 public class hello{
3     public static void main(String[] args) {
4         Scanner input=new Scanner(System.in);
5         String n=input.next();
6         char c=input.next().charAt(0);
7         char arr[]=new char[n.length()];
8         int len=n.length();
9         int x=0;
10        for (int i=0;i<len;i++){
11            arr[i]=n.charAt(i);
12            if(arr[i]==c){
13                System.out.print(i);
14                x=1;
15            }
16        }
17    }
18    if(x==0){
19        System.out.print("not found");
20    }
21 }
22 }
```

```
java -cp /tmp/qNZ6Xb4nfV/hello
kongara
r
5

=== Code Execution Successful ===
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