Source History

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to chan
 */

package com.mycompany.labprograms;
import java.util.*;
class prg61{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        System.out.println("Eneter a sentence: ");
        String s = sc.nextLine();
        int wCount = 0, lCount = 0;
        int l = s.length();
        for (int i = 0; i<l; i++) {
        char ch = s.charAt(i);
         if(ch ==' '){
          wCount++;
         }else{
          lCount++;
         }
        }
       wCount++;
       System.out.println("No. of words = "+ wCount);
       System.out.println("No. of letters = "+ lCount);
        }
    }
```

Output - Run (prg61)

```
Nothing to compile - all classes are up to date.

--- exec:3.5.1:exec (default-cli) @ labprograms ---
Eneter a sentence:
Hello how are you
No. of words = 4
No. of letters = 14
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  02:02 min
Finished at: 2026-02-16T13:33:47+05:30
------------------------------------------------------------------------
```

prg61.java × prg62.java ×

Source History

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to chan
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this temp
 */
package com.mycompany.labprograms;
import java.util.*;
class prg62{
 public static void main(String args[]) {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter a word or sentence: ");
    String s = sc.nextLine();
    int l = s.length();
    s = s.toUpperCase();
    String sl = "";
    for (int i = 0; i < l; i++) {
      char ch = s.charAt(i);
      if ( "AEIOU ".indexOf(ch) != - 1 ){
       continue;
      }
       sl = sl + ch;
    }
    System.out.println("String with vowels removed");
    System.out.println(sl);
    }
}
```

com.mycompany.labprograms.prg62

Output - Run (prg62) ×

```
Nothing to compile - all classes are up to date.

--- exec:3.5.1:exec (default-cli) @ labprograms ---
Enter a word or sentence:
Computer
String with vowels removed
CMPTR
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  14.576 s
Finished at: 2026-02-16T13:48:54+05:30
------------------------------------------------------------------------
```

prg63.java

Source History

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to chan
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this temp
 */
package com.mycompany.labprograms;
import java.util.*;
class prg63{
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        System.out.println( "Enter a name of 3 words: ");
        String s = sc.nextLine();
        int len = s.length();
        System.out.print(s.charAt(0) +" ");
        for(int i = 1; i < len; i++) {
        char ch = s.charAt(i);
        if(ch ==  ' ') {
        char ch2 = s.charAt(i + 1);
        System.out.print(ch2 +" ");
    }
    }
 }
}

```

Output - Run (prg63)

```
--- compiler:3.13.0:compile (default-compile) @ labprograms ---
Nothing to compile - all classes are up to date.

--- exec:3.5.1:exec (default-cli) @ labprograms ---
Enter a name of 3 words:
Lala Lajpat Rai
L L R
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  27.573 s
Finished at: 2026-02-16T13:54:12+05:30
------------------------------------------------------------------------
```

prg63.java × prg64.java ×

Source History

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this templa
 */
package com.mycompany.labprograms;
import java.util.*;
class prg64{
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a name of 3 words:");
        String name = sc.nextLine();
        int ls = name.lastIndexOf(' ');
        String s= name.substring(ls + 1);
        String i = name.substring(0, ls);
        System.out.println(s+""+ i);
    }
}

```

Output - Run (prg64) ×

```
--- compiler:3.13.0:compile (default-compile) @ labprograms ---
Nothing to compile - all classes are up to date.

--- exec:3.5.1:exec (default-cli) @ labprograms ---
Enter a name of 3 words:
java c++ html
htmljava c++
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  21.945 s
Finished at: 2026-02-16T13:57:35+05:30
------------------------------------------------------------------------
```

prg63.java | prg64.java | prg65.java

Source | History

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to chan
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this temp
 */
package com.mycompany.labprograms;
import java.util.*;
class prg65{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.println("Enter a word or sentence:");
String str = in.nextLine();
str +="";
String word = "", lWord = "";
int len = str.length();
for (int i = 0; i<len; i++) {
char ch = str.charAt(i);
if (ch ==' ') {
 if (word.length() > lWord.length())
    lWord = word;
word = "";
}
else {
word += ch;
}
}
System.out.println("The longest word:"+ lWord +
": The length of the word:" + lWord.length()); }
}
```

com.mycompany.labprograms.prg65 > main > for (int i = 0; i < len; i++)

Output - Run (prg65)

```
--- compiler:3.13.0:compile (default-compile) @ labprograms ---
Nothing to compile - all classes are up to date.

--- exec:3.5.1:exec (default-cli) @ labprograms ---
Enter a word or sentence:
progrm java
The longest word:progrm: The length of the word:6
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  7.037 s
Finished at: 2026-02-16T14:04:33+05:30
------------------------------------------------------------------------
```

prg63.java × prg64.java × prg65.java × prg66.java ×

Source History

```
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to chan
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this temp
4   */
5  package com.mycompany.labprograms;
6  import java.util.*;
7  public class prg66
8  {
9  public static void main(String args[]) {
10 Scanner in = new Scanner(System.in);
11 int arr[] = new int[20];
12 System.out.println("Enter 20 numbers");
13 for(int i = 0; i < arr.length; i++) {
14 arr[i] = in.nextInt();
15 }
16 int oddSum = 0, evenSum = 0;
17 for (int i = 0; i < arr.length; i++) {
18     if(arr[i] % 2 == 0){
19       evenSum += arr[i];
20     }else{
21       oddSum += arr[i];
22     }
23 }
24 System.out.println("Sum of Odd numbers = " + oddSum);
25 System.out.println("Sum of Even numbers = "+ evenSum);
26 }
27 }
```

Output - Run (prg66) ×

```
8
9
0
0
9
8
8
6
5
4
3
2
1
Sum of Odd numbers = 43
Sum of Even numbers = 48
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  29.259 s
```

prg63.java | prg64.java | prg65.java | prg66.java | prg67.java

Source | History

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to chan
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this temp
 */
package com.mycompany.labprograms;
import java.util.Scanner;
public class prg67{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
double arr[] = new double[2];
System.out.println("Enter 2 temperatures in degree Fahrenheit");
for(int i = 0; i < arr.length; i++) {
arr[i] = in.nextDouble();
}
System.out.println("Temperatures in degree Celsius");
for(int i = 0; i < arr.length; i++) {
double tc = 5 * ((arr[i] - 32) / 9);
System.out.println(tc);
}
}
}
```

com.mycompany.labprograms.prg67 > main > arr

Output - Run (prg67)

```
--- compiler:3.13.0:compile (default-compile) @ labprograms ---
Recompiling the module because of changed source code.
Compiling 7 source files with javac [debug release 25] to target\classes

--- exec:3.5.1:exec (default-cli) @ labprograms ---
Enter 2 temperatures in degree Fahrenheit
-100
300
Temperatures in degree Celsius
-73.33333333333333
148.88888888888889
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  10.865 s
Finished at: 2026-02-16T14:15:23+05:30
------------------------------------------------------------------------
```

prg63.java | prg64.java | prg65.java | prg66.java | prg67.java | prg68.java

Source | History

```
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to chan
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this temp
4   */
5  package com.mycompany.labprograms;
6  import java.util.Scanner;
7  public class prg68
8  {
9  public static void main(String args[]) {
10 Scanner in = new Scanner(System.in); int
11 arr[] = new int[10];
12 System.out.println( "Enter 10 numbers");
13 for(int i = 0; i < arr.length; i++) {
14 arr[i] = in.nextInt();
15 }
16 for (int i = 0; i < arr.length; i++) {
17     if(arr[i] < 0)
18 System.out.print(arr[i] + "");
19 }
20 for (int i = 0; i < arr.length; i++) {
21     if(arr[i] >= 0)
   System.out.print(arr[i] + "");
23 }
24 }
25 }
26
```

com.mycompany.labprograms.prg68 > main > for (int i = 0; i < arr.length; i++) > if (arr[i] >= 0)

Output - Run (prg68)

```
1
2
3
4
5
6
7
8
9
0
1234567890
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  12.264 s
Finished at: 2026-02-16T14:18:33+05:30
------------------------------------------------------------------------
```

Run (prg67) 50% | (7 more...) | 22:28 | INS

Main.java

Run

Output

Clear

```java
import java.util.Scanner;
public class prg69
{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.print("Enter a character: ");
char ch = in.next().charAt(0);
System.out.println("Next 5 characters from "
+ ch + " are:");
for (int i = 1; i <= 5; i++) {
System.out.println(++ch); }
}
}
```

```
Enter a character: v
Next 5 characters from v are:
w
x
y
z
{

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

Main.java

Run

```java
import java.util.Scanner;
public class prg70{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.print("Enter number of students: ");
    int n= in.nextInt();
String name[] = new String[n];
int totalmarks[] = new int[n];
int grandTotal = 0;
for (int i = 0; i < n; i++) {
in.nextLine();
System.out.print("Enter name of student " + (i
    +1) + ": ");
name[i] = in.nextLine();
System.out.print("Enter total marks of student
    " + (i+1) + ": ");
totalmarks[i] = in.nextInt();
grandTotal += totalmarks[i];
}
double avg = grandTotal / (double)n;
System.out.println("Average = " + avg);
for (int i = 0; i < n; i++) {
System.out.println("Deviation for " + name[i] +
    " = " +(totalmarks[i] - avg));
}
}
}
```

Output

Clear

```
Enter number of students: 2
Enter name of student 1: ken
Enter total marks of student 1: 90
Enter name of student 2: fin
Enter total marks of student 2: 95
Average = 92.5
Deviation for ken = -2.5
Deviation for fin = 2.5

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

```
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this
 */
package com.mycompany.pro1;
import java.util.Scanner;
public class prg61
{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
String name[] = new String[50];
int marks[] = new int[50];
int total = 0;
for (int i = 0; i<name.length; i++) {
System.out.print("Enter name of student " + (i+1) + ": ");
name[i] = in.nextLine();
System.out.print("Enter marks of student " + (i+1) + ":");
marks[i] = in.nextInt();
total += marks[i];
in.nextLine();
}
double avg = (double)total / 50.0;
System.out.println("Subject Average Marks = " + avg); int
hIdx = 0;
for (int i = 1; i<marks.length; i++) { if
(marks[i] >marks[hIdx])
hIdx = i;
}
System.out.println("Highest Marks = " + marks[hIdx]);
System.out.println("Name = "+ name[hIdx]);
}
}
```

com.mycompany.pro1.prg61 > main > for (int i = 1; i < marks.length; i++) > if (marks[i] > marks[hIdx

put - Run (prg61) ×

```
--- exec:3.5.1:exec (default-cli) @ pro1 ---
Enter name of student 1: Shri
Enter marks of student 1:95
Enter name of student 2: vidhya
Enter marks of student 2:98
Enter name of student 3: nithiloa
Enter marks of student 3:97
Enter name of student 4: swetha
Enter marks of student 4:78
Enter name of student 5: rakshitha
Enter marks of student 5:87
Enter name of student 6: sahana
Enter marks of student 6:89
```

```
package com.mycompany.pro1;
import java.util.*;
public class prg62
{
public static void main(String args[]) {
Scanner in = new Scanner(System.in); int
arr[] = new int[20];
System.out.println("Enter 20 numbers:"); for
(int i = 0; i<arr.length; i++) {
arr[i] = in.nextInt();
}
for (int i = 0; i<arr.length / 2 - 1; i++) {
for (int j = 0; j <arr.length / 2 - i - 1; j++) { if
(arr[j] <arr[j + 1]) {
int t = arr[j + 1];
arr[j + 1] = arr[j];
arr[j] = t;
}
}
}
for (int i = 0; i<arr.length / 2 - 1; i++) {
for (int j = arr.length / 2; j<arr.length - i - 1; j++) { if
(arr[j] < arr[j + 1]) {
int t = arr[j + 1];
arr[j + 1] = arr[j];
arr[j] = t;
}
}
}
System.out.println("\nSorted Array:");
for (int i = 0; i < arr.length; i++) {
System.out.print(arr[i] + " ");
}
}
}
```

m.mycompany.pro1.prg62 > main > for (int i = 0; i < arr.length; i++

Run (prg61) × Run (prg62) ×

```
--- exec:3.5.1:exec (default-cli) @ pro1 ---
Enter 20 numbers:
56
-98
46
72
32
-12
35
-76
-15
```

```java
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this template
 */
package com.mycompany.pro1;
 import java.util.Scanner;
public class prg63
{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
int i = 0;
int arr[] = new int[20];
int even[] = new int[20];
int odd[] = new int[20];
System.out.println("Enter 20 numbers:"); for
(i = 0; i < 20; i++) {
arr[i] = in.nextInt();
}
int eIdx = 0, oIdx = 0;
for (i = 0; i<20; i++) {
if (arr[i] % 2 == 0)
even[eIdx++] = arr[i];
else
odd[oIdx++] = arr[i];
}
System.out.println("Even Numbers:");
for(i = 0; i < eIdx; i++) {
System.out.print(even[i] + " ");
}
System.out.println("\nOdd Numbers:");
for (i = 0; i <oIdx; i++) {
System.out.print(odd[i] + " ");
}
}
}
```

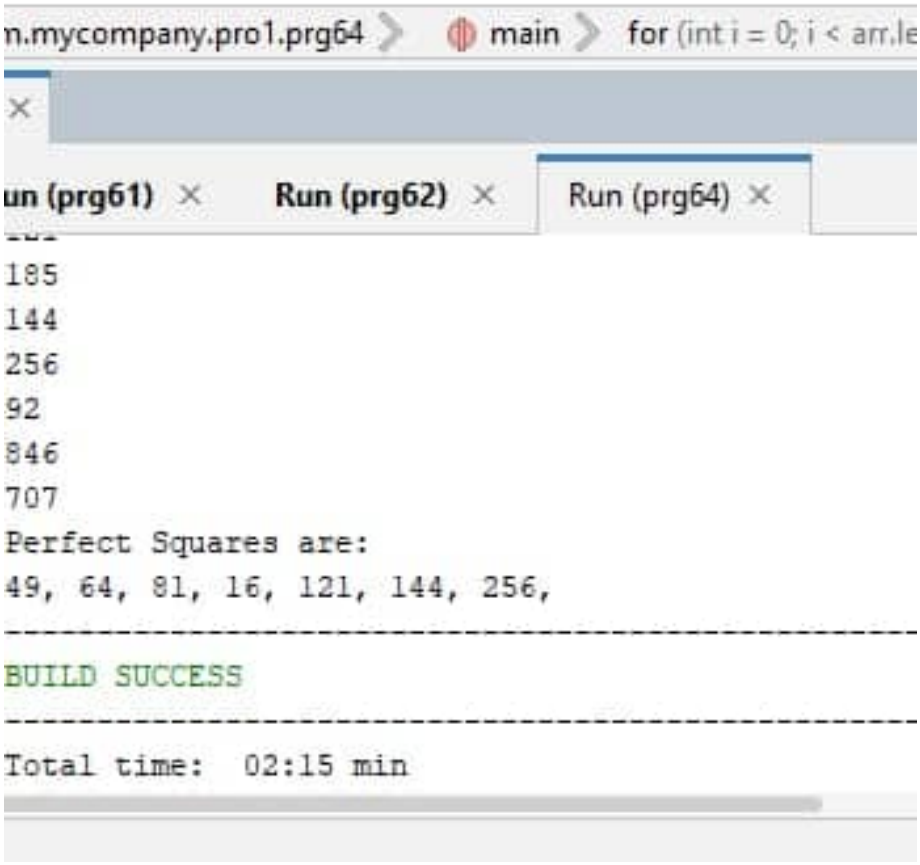
com.mycompany.pro1.prg63 > main > i >

tput ×

Run (prg61) × Run (prg62) × Run (prg63) ×

```
17
18
19
20
Even Numbers:
2 4 6 8 10 12 14 16 18 20
Odd Numbers:
1 3 5 7 9 11 13 15 17 19
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  31.847 s
```

```java
package com.mycompany.pro1;
import java.util.Scanner;
public class prg64
{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
int arr[] = new int[20];
System.out.println("Enter 20 numbers");
for(int i = 0; i < arr.length; i++) {
arr[i] = in.nextInt();
}
System.out.println("Perfect Squares are:")
(int i = 0; i<arr.length; i++) {
double sr = Math.sqrt(arr[i]);
if ((sr - Math.floor(sr)) == 0)
System.out.print(arr[i] + ", ");
}
}
}
```



```java
package com.mycompany.pro1;
import java.util.Scanner;
public class prg65
{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
double a[] = new double[10];
int b[] = new int[10];
System.out.println("Enter 10 decimal numbers"); for
(int i = 0; i<a.length; i++) {
a[i] = in.nextDouble();
b[i] = (int)a[i];
}
System.out.println("Truncated numbers"); for
(int i = 0; i < b.length; i++) {
System.out.print(b[i] + ", ");
}
}
}
```

om.mycompany.pro1.prg65 > main > for (int i = 0; i < b.length; i++) >

t ×

Run (prg61) × Run (prg62) × Run (prg65) ×

```
1.3456
67.0987
23.75
Truncated numbers
89, 75, 76, 1, 12, 3, 2, 1, 67, 23,
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  01:23 min
Finished at: 2026-02-16T13:50:26+05:30
------------------------------------------------------------------------
```

```
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main
 */
package com.mycompany.pro1;
import java.util.Scanner;
public class prg66
{
public int armstrong(int n) { int
num = n, cubeSum = 0; while
(num > 0) {
int digit = num % 10;
cubeSum = cubeSum + (digit * digit * digit); num
/= 10;
}
if (cubeSum == n)
return 1;
else
return 0;
}
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.print("Enter Number: ");
int num = in.nextInt();
prg66 obj = new prg66();
int r = obj.armstrong(num); if (r== 1)
System.out.println(num + " is an Armstrong number");
else
System.out.println(num + "is not an Armstrong number");
}
}
```

com.mycompany.pro1.prg66 > armstrong > while (num > 0) >

utput - Run (prg66) ×

```
--- compiler:3.13.0:compile (default-compile) @ pro1 ---
Recompiling the module because of changed source code.
Compiling 7 source files with javac [debug release 25] to target\classes

--- exec:3.5.1:exec (default-cli) @ pro1 ---
Enter Number: 153
153 is an Armstrong number
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  21.273 s
Finished at: 2026-02-16T14:01:25+05:30
------------------------------------------------------------------------
```

```
package com.mycompany.pro1;
import java.util.Scanner;
public class prg67
{
public int pronic(int n) { int
isPronic = 0;
for (int i = 1; i <= n - 1; i++) {
    if (i* (i + 1) == n) {
isPronic = 1;
break;
}
}
return isPronic;
}
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.print("Enter the number to check: ");
int num = in.nextInt();
prg67 obj = new prg67();
int r = obj.pronic(num);
if (r == 1)
System.out.println(num + " is a pronic number");
else
System.out.println(num + " is not a pronic number");
}
}
```

m.mycompany.pro1.prg67 > main > num >

- Run (prg67) ×

```
--- compiler:3.13.0:compile (default-compile) @ pro1 ---
Recompiling the module because of changed source code.
Compiling 8 source files with javac [debug release 25] to target\c

--- exec:3.5.1:exec (default-cli) @ pro1 ---
Enter the number to check: 12
12 is a pronic number
------------------------------------------------------------------------
BUILD SUCCESS
```

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/M
 */
package com.mycompany.pro1;
import java.util.Scanner;
public class prg68
{
public void fact(int n) {
if (n <10 || n < 99) {
System.out.println("ERROR!!! Not a 2-digit number");
return;
}
int i;
for (i = 2; i <= n; i++) {
if (n % i == 0)
break;
}
int sf = n / i;
System.out.println(i + ", " + sf);
}
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.print("Enter number:");
int num = in.nextInt();
prg68 obj = new prg68();
obj.fact(num);
}
}
```

com.mycompany.pro1.prg68 > fact >

ut - Run (prg68) ×

```
--- compiler:3.13.0:compile (default-compile) @ pro1 ---
Recompiling the module because of changed source code.
Compiling 9 source files with javac [debug release 25] to target\cla

--- exec:3.5.1:exec (default-cli) @ pro1 ---
Enter number:21
ERROR!!! Not a 2-digit number
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  4.233 s
Finished at: 2026-02-16T14:11:34+05:30
------------------------------------------------------------------------
```

```
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.t
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit
 */
package com.mycompany.pro1;
import java.util.Scanner;
public class prg69
{
public long fact(int n) {
long f = 1;
for (int i = 1; i<= n; i++) {
f *= i;
}
return f;
}
public static void main(String args[]) {
prg69 obj = new prg69();
Scanner in = new Scanner(System.in);
System.out.print("Enter m: ");
int m = in.nextInt();
System.out.print("Enter n: "); int
n = in.nextInt();
double s = (double)(obj.fact(n)) / (obj.fact(m) * obj.fact(n - m));
System.out.println("S=" + s);
}
}
```

com.mycompany.pro1.prg69 > main >

ut - Run (prg69) ×

```
Recompiling the module because of changed source code.
Compiling 10 source files with javac [debug release 25] to target\classes

--- exec:3.5.1:exec (default-cli) @ pro1 ---
Enter m: 6
Enter n: 5
S=0.16666666666666666
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  11.518 s
Finished at: 2026-02-16T14:13:39+05:30
------------------------------------------------------------------------
```

```
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this templat
 */
package com.mycompany.pro1;
import java.util.Scanner;
public class prg80
{
public static void main(String args[]) {
Scanner in = new Scanner(System.in);
System.out.print("Enter a character: ");
char ch = in.next().charAt(0);
char nextCh = (char)(ch + 10);
System.out.println("Tenth character from "+ ch + "is " + nextCh);
}
}
```

com.mycompany.pro1.prg80

Output - Run (prg80)

```
--- compiler:3.13.0:compile (default-compile) @ pro1 ---
Recompiling the module because of changed source code.
Compiling 12 source files with javac [debug release 25] to target\classes

--- exec:3.5.1:exec (default-cli) @ pro1 ---
Enter a character: A
Tenth character from Ais K
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  6.356 s
Finished at: 2026-02-16T14:24:03+05:30
------------------------------------------------------------------------
```