**Programs**

**1.Find the Factorial of the given number**

**Program:**

**public** **class** Factorial {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the number");

**int** n = sc.nextInt();

**int** factorial = 1;

**for** (**int** i = 1; i <= n; i++) {

factorial = factorial \* i;

}

System.***out***.println(factorial);

}

}

**Output:**

**Enter the number**

**5**

**120**

**2. Find the reverse of the number**

**Program:**

**public** **class** ReverseTheNumber {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the number");

**int** n = sc.nextInt();

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = (j \* 10) + i;

a = a / 10;

}

System.***out***.println("The reverse number is " + j);

}

}

**Output:**

**Enter the number**

**12345**

**The reverse number is 54321**

**3. Check whether the number is palindrome or not**

**Program:**

**public** **class** Palindrome {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the number");

**int** n = sc.nextInt();

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = (j \* 10) + i;

a = a / 10;

}

**if** (n == j) {

System.***out***.println("It is panlidrome");

} **else** {

System.***out***.println("It is not a panlindrome");

}

}

}

**Output:**

**Enter the number**

**11**

**It is panlidrome**

**4. Check whether the number is amstrong or not**

**Program:**

**public** **class** Amstrong {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the number");

**int** n = sc.nextInt();

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = (i \* i \* i) + j;

a = a / 10;

}

**if** (n == j) {

System.***out***.println("It is amstrong");

} **else** {

System.***out***.println("It is not a amstrong");

}

}

}

**Output:**

**Enter the number**

**153**

**It is amstrong**

**5. Print the amstrong number available between 0 to 1000**

**Program:**

**public** **class** Amstrong {

**public** **static** **void** main(String[] args) {

**for** (**int** n = 1; n <= 1000; n++) {

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = j + (i \* i \* i);

a = a / 10;

}

**if** (n == j) {

System.***out***.println(n);

}

}

}

}

**Output:**

**1**

**153**

**370**

**371**

**407**

**6. To print the palindrome available between 0 to 100**

**Program:**

**public** **class** Palindrome {

**public** **static** **void** main(String[] args) {

**for** (**int** n = 1; n <= 100; n++) {

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = (j \* 10) + i;

a = a / 10;

}

**if** (n == j) {

System.***out***.println(n);

}

}

}

}

**Output:**

**1**

**2**

**3**

**4**

**5**

**6**

**7**

**8**

**9**

**11**

**22**

**33**

**44**

**55**

**66**

**77**

**88**

**99**

**7. Print the count of the given number**

**Program:**

**public** **class** CountOfNumber {

**public** **static** **void** main(String[] args) {

**int** n, i = 0;

System.***out***.println("Enter a number");

Scanner get = **new** Scanner(System.***in***);

n = get.nextInt();

**while** (n > 0) {

n = n / 10;

i++;

}

System.***out***.println("No of digits present: " + i);

}

}

**Output:**

**Enter a number**

**12345**

**No of digits present: 5**

**8. Find the Sum of the digit**

**Program:**

**public** **class** SumOfDigits {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the number");

**int** n = sc.nextInt();

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = j + i;

a = a / 10;

}

System.***out***.println("Sum of the digits " + j);

}

}

**Output:**

**Enter the number**

**123**

**Sum of the digits 6**

**9.Swap of two number using third variable**

**Program:**

**public** **class** Swap {

**public** **static** **void** main(String[] args) {

**int** a, b, c;

Scanner sw = **new** Scanner(System.***in***);

System.***out***.println("The numbers are");

a = sw.nextInt();

b = sw.nextInt();

c = a;

a = b;

b = c;

System.***out***.println("Swapping numbers are");

System.***out***.println(a);

System.***out***.println(b);

}

}

**Output:**

**The numbers are**

**12**

**24**

**Swapping numbers are**

**24**

**12**

**10.Swap of two variable without using third variable**

**Program:**

**public** **class** SwapTwoNumber {

**public** **static** **void** main(String[] args) {

**int** a, b;

Scanner sw = **new** Scanner(System.***in***);

System.***out***.println("The numbers are");

a = sw.nextInt();

b = sw.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.***out***.println("Swapping numbers are");

System.***out***.println(a);

System.***out***.println(b);

}

}

**Output:**

**The numbers are**

**12**

**24**

**Swapping numbers are**

**24**

**12**

**11. To find even/odd number:**

**Program:**

**public** **class** EvenOrOdd {

**public** **static** **void** main(String[] args) {

Scanner e = **new** Scanner(System.***in***);

System.***out***.println("Enter a Number");

**int** n = e.nextInt();

**if** (n % 2 == 0) {

System.***out***.println("Even number");

} **else** {

System.***out***.println("Odd number");

}

}

}

**Output:**

**Enter a Number**

**23**

**Odd**

**12. Count of even and odd count**

**Program:**

**public** **class** OddEvenCount {

**public** **static** **void** main(String[] args) {

**int** evencount = 0, oddCount = 0;

**for** (**int** i = 1; i <= 100; i++) {

**if** (i % 2 == 0) {

evencount++;

} **else** {

oddCount++;

}

}

System.***out***.println("Even count is " + evencount);

System.***out***.println("Odd count is " + oddCount);

}

}

**Output:**

**Even count is 50**

**Odd count is 50**

**13. Fibonacci series:**

**Program:**

**public** **class** Fibonacci {

**public** **static** **void** main(String[] args) {

**int** a = 0, b = 1;

System.***out***.println(a);

System.***out***.println(b);

**for** (**int** i = 2; i <= 10; i++) {

**int** c = a + b;

System.***out***.println(c);

a = b;

b = c;

}

}

}

**Output:**

**0**

**1**

**1**

**2**

**3**

**5**

**8**

**13**

**21**

**34**

**55**

**14. Print the value in Fibonacci series up to 100**

**Program:**

**public** **class** Fibonacci {

**public** **static** **void** main(String[] args) {

**int** a = 0, b = 1;

System.***out***.println(a);

System.***out***.println(b);

**for** (**int** i = 1; i <= 10; i++) {

**int** c = a + b;

**if** (c <= 100)

a = b;

b = c;

System.***out***.println(c);

}

}

}

**Output:**

**0**

**1**

**1**

**2**

**3**

**5**

**8**

**13**

**21**

**34**

**55**

**89**

**15. Reverse the String**

**Program:**

**public** **class** ReverseString {

**public** **static** **void** main(String args[]) {

String original, reverse = "";

Scanner in = **new** Scanner(System.***in***);

System.***out***.println("Enter a string to reverse");

original = in.nextLine();

**int** length = original.length();

**for** (**int** i = length - 1; i >= 0; i--)

reverse = reverse + original.charAt(i);

System.***out***.println("Reverse of entered string is: " + reverse);

}

}

**Output:**

**Enter a string to reverse**

**nishathi**

**Reverse of entered string is: ihtahsin**

**16.To Check the String is palindrome or not.**

**Program:**

**public** **class** Palindrome {

**public** **static** **void** main(String args[]) {

String original, reverse = "";

Scanner in = **new** Scanner(System.***in***);

System.***out***.println("Enter a string to check if it is a palindrome");

original = in.nextLine();

**int** length = original.length();

**for** (**int** i = length - 1; i >= 0; i--)

reverse = reverse + original.charAt(i);

**if** (original.equals(reverse))

System.***out***.println("Entered string is a palindrome.");

**else**

System.***out***.println("Entered string is not a palindrome.");

}

}

**Output:**

**Enter a string to check if it is a palindrome**

**madam**

**Entered string is a palindrome.**

**17.Count of each Character in the String**

**Program:**

**public** **class** CountOfCharacter {

**public** **static** **void** main(String args[]) {

{

String s = "vengatram";

HashMap<Character, Integer> emp = **new** HashMap<Character, Integer>();

**char**[] ch = s.toCharArray();

**for** (**char** c : ch) {

**if** (emp.containsKey(c)) {

**int** x = emp.get(c);

emp.put(c, x + 1);

} **else** {

emp.put(c, 1);

}

}

System.***out***.println(emp);

}

}}

**Output:**

**{a=2, r=1, t=1, e=1, v=1, g=1, m=1, n=1}**

**18.Count of each Word**

**Program:**

**public** **class** CountOfWord {

**public** **static** **void** main(String args[]) {

{

String s = "vengat ram";

String[] s1 = s.split(" ");

HashMap<String, Integer> emp = **new** HashMap<String, Integer>();

**for** (String c : s1) {

**if** (emp.containsKey(c)) {

**int** x = emp.get(c);

emp.put(c, x + 1);

} **else** {

emp.put(c, 1);

}

}

System.***out***.println(emp);

}

}

}

**Output:**

**{vengat=1, ram=1}**

**19. Print the numbers in ascending order**

**Program:**

**public** **class** AscendingOrder {

**public** **static** **void** main(String[] args) {

**int** n, temp;

Scanner s = **new** Scanner(System.***in***);

System.***out***.print("Enter no.of elements you want in array:");

n = s.nextInt();

**int** a[] = **new** **int**[n];

System.***out***.println("Enter all the numbers:");

**for** (**int** i = 0; i < n; i++) {

a[i] = s.nextInt();

}

**for** (**int** i = 0; i < n; i++) {

**for** (**int** j = i + 1; j < n; j++) {

**if** (a[i] > a[j]) {

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

System.***out***.print("Ascending Order:");

**for** (**int** i = 0; i < n - 1; i++) {

System.***out***.print(a[i] + ",");

}

System.***out***.print(a[n - 1]);

}

}

**Output:**

**Enter no. of elements you want in array: 10**

**Enter all the numbers:**

**20**

**30**

**40**

**50**

**60**

**70**

**80**

**90**

**100**

**120**

**Ascending Order:20,30,40,50,60,70,80,90,100,120**

**20.Print the numbers in descending order**

**Program:**

**public** **class** DescendingOrder {

**public** **static** **void** main(String[] args) {

**int** n, temp;

Scanner s = **new** Scanner(System.***in***);

System.***out***.print("Enter no.of elements you want in array:");

n = s.nextInt();

**int** a[] = **new** **int**[n];

System.***out***.println("Enter all the elements:");

**for** (**int** i = 0; i < n; i++) {

a[i] = s.nextInt();

}

**for** (**int** i = 0; i < n; i++) {

**for** (**int** j = i + 1; j < n; j++) {

**if** (a[i] > a[j]) {

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

System.***out***.print("Descending Order:");

**for** (**int** i = n - 1; i > 0; i--) {

System.***out***.print(a[i] + ",");

}

System.***out***.print(a[0]);

}

}

**Output:**

**Enter no. of elements you want in array: 5**

**Enter all the elements:**

**90**

**50**

**35**

**48**

**12**

**Descending Order:90,50,48,35,12**

**21.Print Triangle with Stars**

**Program:**

**public** **class** Triangle {

**public** **static** **void** main(String[] args) {

**for** (**int** i = 1; i <= 5; i++) {

**for** (**int** j = 1; j <= 5 - i; j++) {

System.***out***.print("\* ");

}

**for** (**int** k = 1; k <= i; k++) {

System.***out***.print("\* ");

}

System.***out***.println(" ");

}

}

}

**Output:**

**\***

**\* \***

**\* \* \***

**\* \* \* \***

**\* \* \* \* \***

**22. Assume the string is he,xa,wa,re and give the output as**

**hexaware**

**Program:**

**public** **class** Replace {

**public** **static** **void** main(String[] args) {

String s = "he,xa,wa,re";

String x = s.replace(",", "");

System.***out***.println(x);

}

}

**Output:**

**Hexaware**

**23.Find the special character, uppercase, lowercase, Number of digits in the given string**

**Program:**

**public** **class** CharCount {

**public** **static** **void** main(String[] args) {

String s = "Hi Welcome To Java Classes Tommorow At 2.00p.m!!";

**int** count = 0;

**int** count1 = 0;

**int** count2 = 0;

**int** count3 = 0;

**for** (**int** i = 0; i < s.length(); i++) {

**if** (s.charAt(i) >= 'a' && s.charAt(i) <= 'z') {

count++;

} **else** **if** (s.charAt(i) >= 'A' && s.charAt(i) <= 'Z') {

count1++;

} **else** **if** (s.charAt(i) >= '0' && s.charAt(i) <= '9') {

count2++;

} **else** {

count3++;

}

}

System.***out***.println("total no of small letters: " + count);

System.***out***.println("total no of capital letters:" + count1);

System.***out***.println("total no of digits: " + count2);

System.***out***.println("total no of special char:"+ count3);

}

}

**Output:**

**total no of small letters: 27**

**total no of capital letters: 7**

**total no of digits : 3**

**total no of special characters: 12**

**24. Print Reverse triangle without Space**

**Program:**

**public** **class** ReverseTriangle {

**public** **static** **void** main(String[] args) {

**for** (**int** i = 1; i <= 5; i++) {

**for** (**int** j = 5; j >= i; j--) {

System.***out***.print("\* ");

}

System.***out***.println();

}

}

}

**Output:**

**\* \* \* \* \***

**\* \* \* \***

**\* \* \***

**\* \***

**\***

**25 . Check Whether the given number is prime or not**

**Program:**

**public** **class** Prime {

**public** **static** **void** main(String[] args) {

**int** n;

Scanner input = **new** Scanner(System.***in***);

System.***out***.println("Enter the number");

n = input.nextInt();

**int** count = 0;

**for** (**int** i = 2; i <= n / 2; i++) {

**if** (n % i == 0) {

count = 1;

}

}

**if** (count == 0) {

System.***out***.println("It is a prime number");

} **else** {

System.***out***.println("It is not a prime number");

}

}

}

**Output:**

**Enter the number**

**17**

**It is a prime number**

**26. Print the prime numbers count available between 1 - 100**

**Program:**

**public** **class** PrimeNumberCount {

**public** **static** **void** main(String[] args) {

**int** count, c = 0;

**for** (**int** i = 1; i <= 100; i++) {

count = 0;

**for** (**int** j = 2; j <= i / 2; j++) {

**if** (i % j == 0) {

count++;

}

}

**if** (count == 0) {

c++;

}

}

System.***out***.println(c);

}

}

**Output:**

**26**

**27. Multiplication of the given number**

**Program:**

**public** **class** Multiplication {

**public** **static** **void** main(String[] args) {

**int** n, j;

Scanner mt = **new** Scanner(System.***in***);

System.***out***.println("Enter the Table");

n = mt.nextInt();

System.***out***.println("Table upto");

j = mt.nextInt();

**for** (**int** i = 1; i <= j; i++) {

**int** c = n \* i;

System.***out***.println(i + "\*" + n + "=" + c);

}

}

}

**Output:**

**Enter the Table**

**7**

**Table upto**

**10**

**1\*7=7**

**2\*7=14**

**3\*7=21**

**4\*7=28**

**5\*7=35**

**6\*7=42**

**7\*7=49**

**8\*7=56**

**9\*7=63**

**10\*7=70**

**28. Biggest of 4 number**

**Program:**

**public** **class** BiggestNumber {

**public** **static** **void** main(String[] args) {

**int** a, b, c, d;

Scanner bn = **new** Scanner(System.***in***);

System.***out***.println("The four numbers are");

a = bn.nextInt();

b = bn.nextInt();

c = bn.nextInt();

d = bn.nextInt();

**if** (a > b && a > c && a > d) {

System.***out***.println("The biggest number is= " + a);

} **else** **if** (b > a && b > c && b > d) {

System.***out***.println("The biggest number is= " + b);

} **else** **if** (c > a && c > b && c > d) {

System.***out***.println("The biggest number is= " + c);

} **else** {

System.***out***.println("The biggest number is= " + d);

}

}

}

**Output:**

**The four numbers are**

**10**

**20**

**30**

**40**

**The biggest number is=40**

**29. Find the 3rd maximum Number in an given array**

**Program:**

**public** **class** ThirdMax {

**public** **static** **void** main(String[] args) {

**int** a[] = { -12, 45, -23, 64, -100, 24 };

**for** (**int** i = 0; i < a.length; i++) {

**for** (**int** j = i + 1; j < a.length; j++) {

**int** temp = 0;

**if** (a[i] < a[j]) {

temp = a[j];

a[j] = a[i];

a[i] = temp;

}

}

}

**for** (**int** k = 0; k < a.length; k++) {

System.***out***.println(a[k]);

}

System.***out***.println("3rd maximum number is"+ a[a.length4]);

}

}

**Output:**

**64**

**45**

**24**

**-12**

**-23**

**-100**

**The Third maximum number is 24**

**30. Separate reverse of each word in the string**

**Program:**

**public** **class** Reverse {

**public** **static** **void** main(String[] args) {

String name = "Greens Tech";

String[] s = name.split(" ");

String res = "";

**for** (**int** i = 0; i < s.length; i++) {

String t = s[i];

**for** (**int** j = t.length() - 1; j >= 0; j--) {

**char** ch = t.charAt(j);

res = res + ch;

}

res = res + " ";

}

System.***out***.println(res); } }

**Output:**

**sneerG hceT**

**31. Number triangle**

**Program:**

**public** **class** Welcome {

**public** **static** **void** main(String[] args) {

**for** (**int** i = 1; i <= 5; i++) {

**for** (**int** j = 1; j <= 5 - i; j++) {

System.***out***.print(" ");

}

**for** (**int** k = 1; k <= i; k++) {

System.***out***.print(i + " ");

}

System.***out***.println(" ");

}

}

}

**Output:**

**1**

**2 2**

**3 3 3**

**4 4 4 4**

**5 5 5 5 5**

**32. Find the duplicate count in an array**

**Program:**

**public** **class** ArrayDuplicate {

**public** **static** **void** main(String[] args) {

**int** n, count = 0;

Scanner s = **new** Scanner(System.***in***);

System.***out***.print("Enter no.of element you want in array: ");

n = s.nextInt();

**int** a[] = **new** **int**[n];

System.***out***.println("Enter all the numbers: ");

**for** (**int** i = 0; i < n; i++) {

a[i] = s.nextInt();

}

**for** (**int** i = 0; i < n; i++) {

**for** (**int** j = i + 1; j < n; j++) {

**if** (a[i] == a[j]) {

count++;

}

}

}

System.***out***.println(count); } }

**Output:**

**Enter no. of elements you want in array: 5**

**Enter all the numbers:**

**10**

**20**

**10**

**30**

**10**

**3**

**33.Find the duplicate count in the string**

**Program:**

**public** **class** ListDuplicate {

**public** **static** **void** main(String[] args) {

List<String> list = **new** ArrayList<String>();

list.add("a");

list.add("b");

list.add("c");

list.add("d");

list.add("b");

list.add("c");

list.add("a");

list.add("a");

list.add("a");

System.***out***.println("Count all with frequency");

Set<String> uniqueSet = **new** HashSet<String>(list);

**for** (String temp : uniqueSet) {

System.***out***.println(temp + ": " + Collections.frequency(list, temp));

}

}

}

**Output:**

**Count all with frequency**

**a: 4**

**b: 2**

**c: 2**

**d: 1**

**34.Count of the palindrome number**

**Program:**

**public** **class** PalindromeCount {

**public** **static** **void** main(String[] args) {

**int** c = 0;

**for** (**int** n = 1; n <= 1000; n++) {

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = (j \* 10) + i;

a = a / 10;

}

**if** (n == j) {

c++;

}

}

System.***out***.println(c);

}

}

**Output:**

**106**

**35. Count of the amstrong number**

**Program:**

**public** **class** AmstrongCount {

**public** **static** **void** main(String[] args) {

**int** c = 0;

**for** (**int** n = 1; n <= 1000; n++) {

**int** a, i = 0, j = 0;

a = n;

**while** (a > 0) {

i = a % 10;

j = j + (i \* i \* i);

a = a / 10;

}

**if** (n == j) {

c++;

}

}

System.***out***.println(c);

}

}

**Output:**

**5**

**36.Construct the triangle pyramid**

**Program:**

**public** **class** TrianglePyramid {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("How Many Rows You Want In Your Pyramid?");

**int** noOfRows = sc.nextInt();

**int** rowCount = 1;

System.***out***.println("Here Is Your Pyramid");

**for** (**int** i = noOfRows; i >= 1; i--) {

//Printing i\*2 spaces at the beginning of each row

**for** (**int** j = 1; j <= i \* 2; j++) {

System.***out***.print(" ");

}

//Printing j where j value will be from i to noOfRows

**for** (**int** j = i; j <= noOfRows; j++) {

System.***out***.print(j + " ");

}

**for** (**int** j = noOfRows - 1; j >= i; j--) {

System.***out***.print(j + " ");

}

System.***out***.println();

//Incrementing the rowCount

rowCount++;

}

}

}

**Output:**

**How Many Rows You Want In Your Pyramid?**

**5**

**Here Is Your Pyramid**

**5**

**4 5 4**

**3 4 5 4 3**

**2 3 4 5 4 3 2**

**1 2 3 4 5 4 3 2 1**

**37. Count of vowels and non vowels**

**Program:**

**public** **class** VowelsCount {

**public** **static** **void** main(String[] args) {

String a = "welcome";

**int** vowels = 0;

**int** nonVowels = 0;

**for** (**int** i = 0; i < a.length(); i++) {

**char** ch = a.charAt(i);

**if** (ch == 'a' || ch == 'A' || ch == 'e' || ch == 'E' || ch == 'i' || ch == 'I' || ch == 'o' || ch == 'O'

|| ch == 'u' || ch == 'U') {

vowels++;

} **else** {

nonVowels++;

}

}

System.***out***.println("Count of vowels is " + vowels);

System.***out***.println("Count of Non Vowels is " + nonVowels);

}

}

**Output:**

**Count of vowels is 3**

**Count of Non Vowels is 4**

**37.Remove duplicates from stored array**

**Program:**

**public** **class** RemoveDuplicate {

**public** **static** **int**[] removeDuplicates(**int**[] input) {

**int** j = 0;

**int** i = 1;

//return if the array length is less than 2

**if** (input.length < 2) {

**return** input;

}

**while** (i < input.length) {

**if** (input[i] == input[j]) {

i++;

} **else** {

input[++j] = input[i++];

}

}

**int**[] output = **new** **int**[j + 1];

**for** (**int** k = 0; k < output.length; k++) {

output[k] = input[k];

}

**return** output;

}

**public** **static** **void** main(String a[]) {

**int**[] input1 = { 2, 3, 6, 6, 8, 9, 10, 10, 10, 12, 12 };

**int**[] output = *removeDuplicates*(input1);

**for** (**int** i : output) {

System.***out***.print(i + " ");

}

}

}

**Output:**

**{2 3 6 8 9 10 12}**

**38.Sum of the odd and even number**

**Program:**

**public** **class** SumOfOdd {

**public** **static** **void** main(String[] args) {

**int** oddCount = 0, evenCount = 0;

**for** (**int** i = 1; i <= 100; i++) {

**if** (i % 2 == 1) {

oddCount = oddCount + i;

} **else** {

evenCount = evenCount + i;

}

}

System.***out***.println("Count of odd number is " + oddCount);

System.***out***.println("Count of even number is " + evenCount);

}

}

**Output:**

**Count of odd number is 2500**

**Count of even number is 2550**

**39.Count of Uppercase, lowercase, digits, special character**

**Program:**

**public** **class** Test {

**public** **static** **void** main(String[] args) {

**int** lCaseCount = 0, uCaseCount = 0, numbersCount = 0, sCharCount = 0;

String s = "Welcome To JAVA Clas @ 12345";

**for** (**int** i = 0; i < s.length(); i++) {

**char** ch = s.charAt(i);

**if** (Character.*isLowerCase*(ch)) {

lCaseCount++;

} **else** **if** (Character.*isUpperCase*(ch)) {

uCaseCount++;

} **else** **if** (Character.*isDigit*(ch)) {

numbersCount++;

} **else** {

sCharCount++;

}

}

System.***out***.println("Upper Case Count: " + uCaseCount);

System.***out***.println("Lower Case Count: " + lCaseCount);

System.***out***.println("Numbers Count: " + numbersCount);

System.***out***.println("Special Characters Count: " + sCharCount);

}

}

**Output:**

**Upper Case Count: 7**

**Lower Case Count: 10**

**Numbers Count: 5**

**Special Characters Count: 6**