**Important Programs**

1)Find even and odd number

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

**int** a=13;

**int** b=2;

**if**(a%b==0) {

System.***out***.println("Given no. is even number");

}**else** {

System.***out***.println("given no.is odd number");

}

}

}

Quoitiont=/symbol

Remainder=% sym

No is equal to 0 then it is even

**2)Find largest number from array**

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

**int** ar[]= {12,15,11,14,10};

Arrays.*sort*(ar);

System.***out***.println(ar[ar.length-1]);

}

}

User defined input

**package** SimpleHandle;

**import** java.util.Arrays;

**import** java.util.Scanner;

**public** **class** LargestNo {

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

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

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

**int** no=s.nextInt();

**int** arr[]= {18,56,33,54,8};

Arrays.*sort*(arr);

System.***out***.println(arr[arr.length-1]);

}

}

**.3)Find duplicate value from array**

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

**int** ar[]= {12,15,11,14,15,11,10};

6

**for**(**int** i=0;i<=ar.length-1;i++) {

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

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

0 1,2,3,4,5,6

System.***out***.println("duplicate values are ="+ar[i]);

}

}

}

}

}

Index===0 1 2 3 4 5 6 7

**4)Find largest number from two numbers**

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

**int** a = 10;

**int** b = 13;

**if** (a < b) {

System.***out***.println("the largest no is " + b);

} **else** {

System.***out***.println("the largest no is " + a);

}

}

**5)Fibanacci series**

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

**int** a=0;

**int** b=1;

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

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

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

**int** c=a+b;

a= b;

b=c;

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

}

}

Previous 2 no sum

**6)Find Palindrome number**

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

**for**(**int** i=1;i<=6;i++) {

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

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

}

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

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

}

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

}

}

Nothing but reverse no will remain same. Ex.121,535,858

We are create 2no like in variable and compare between them ,if matched then this is palindrome no otherwise not

**7)Find number is prime or not**

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

**int** a=12;

**int** c=0;

**for**(**int** b=1;b<=a;b++) {

**if**(a%b==0) {

c=c+1;

}

}

**if**(c>2) {

System.***out***.println("the given no is prime");

}**else** {

System.***out***.println("the given no isnot prime");

}

}

User defined input

**package** SimpleHandle;

**import** java.util.Scanner;

**public** **class** DuplicateNo {

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

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

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

**int** No=s.nextInt();

**int** temp=0;

**for**(**int** i=2;i<=No-1;i++) {

**if**(No%i==0) {

temp=temp+1;

}

}

**if**(temp==0)

{

System.***out***.println("the given no not prime");

}

**else**

{

System.***out***.println("the given no is prime");

}

}

}

**8)Sorting array in ascending and descending order**

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

**int** ar[]= {12,13,14,15,18,16,17};

Arrays.*sort*(ar);

System.***out***.println("arrays in ascending order");

**for**(**int** i=0;i<=ar.length-1;i++) {

System.***out***.println(ar[i]);

}

System.***out***.println("arrays in descending order");

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

System.***out***.println(ar[i]);

}

}

**9)Character count of string**

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

String s="velocity";

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

}

**10)String into sequence of character**

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

String s="velocity";

**for**(**int** i=0;i<=s.length()-1;i++) {

System.***out***.println(s.charAt(i));

}

}

**11)Find length of each word in string**

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

String s="this is java program";

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

**for**(**int** i=0;i<=word.length-1;i++) {

System.***out***.println(word[i].length());

}

}

**12)Convert first character of string to capital**

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

String s="this is java program";

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

**for**(**int** i=0;i<=word.length-1;i++) {

String str1 = word[i];

String str2 = str1.substring(0,1).toUpperCase()+str1.substring(1, str1.length());

System.***out***.println(str2);

}

}

**13)Separate character and no. from given string**

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

String s="abcde123fij";

**for**(**int** i=0;i<=s.length()-1;i++) {

**if**(Character.*isAlphabetic*(s.charAt(i))) {

System.***out***.print(s.charAt(i));

}

}

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

**for**(**int** i=0;i<=s.length()-1;i++) {

**if**(Character.*isDigit*(s.charAt(i))) {

System.***out***.print(s.charAt(i));

}

}

}

**14)Find even and odd index of string**

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

String s="abc pqr ijk xyz def";

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

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

**for**(**int** t=0;t<=index.length-1;t++) {

**int** w=2;

**if**(t%w==0) {

System.***out***.println(index[t]);

}

}

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

**for**(**int** t=0;t<=index.length-1;t++) {

**int** w=2;

**if**(t%w!=0) {

System.***out***.println(index[t]);

}

}

}

**15)String reverse**

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

String s="velocity";

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

System.***out***.print(s.charAt(i));

}}

**16)Factorial Number**

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

**int** num=5;

**int** b=1;

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

b=b\*i;

}

System.***out***.println("factorial of number is:"+b);

}

**17)Total no.of white spaces**

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

String s="abc def ghi";

**int** a=0;

**for**(**int** i=0;i<=s.length()-1;i++) {

**char** char1 = s.charAt(i);

**if**(char1==' ') {

a++;

}

}

System.***out***.println("total number of a:"+a);

}

**18)Total number of counting single character in a string**

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

String s="this is java program";

**int** a=0;

**for**(**int** i=0;i<=s.length()-1;i++) {

**char** char1 = s.charAt(i);

**if**(char1=='a') {

a++;

}

}

System.***out***.println("total number of a:"+a);

}

**19)Swap two words without using third variable**

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

String s="raman dhore";

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

System.***out***.println(ar[1]+ " "+ar[0]);

}

**20)Listing of prime numbers from array**

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

**int** ar[]= {11,13,16,17,18};

System.***out***.println("Following are the prime numbers from array");

**for**(**int** i=0;i<=ar.length-1;i++) {

**int** c=0;

**for** (**int** b=1;b<=ar[i];b++) {

**if** (ar[i]%b==0) {

c=c+1;

}

}

**if** (c<=2) {

System.***out***.println(ar[i]);

}

}