**List Of All Interview Programs:**

1. How to reverse Singly Linked List?
2. Find out duplicate number between 1 to N numbers.
3. Find out middle index where sum of both ends are equal.
4. Write a singleton class.
5. Write a program to create deadlock between two threads.
6. Write a program to reverse a string using recursive algorithm.

class reverseString{

java.util.Scanner scn = new java.util.Scanner(System.in);

String str = scn.next();

String reverse="";

int i=str.length()-1;

public static void main(String[] args){

System.out.println("Enter a string ");

reverseString obj = new reverseString();

System.out.println(obj.reverse());

}

String reverse(){

if(i>=0){

reverse +=str.charAt(i);

i--;

reverse();

}

return reverse;

}

}

1. Write a program to reverse a number.
2. Write a program to convert decimal number to binary format.

class binaryToDecimal{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

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

int num = scn.nextInt();

String decimal = binaryToDecimal.bTD(num);

System.out.print(decimal);

}

static String bTD(int num){

String decimal ="";

if(num==0){

return "0";

}

while(num>0){

//System.out.print(num%2);

int dig=num%2;

decimal= dig+decimal;

num=num/2;

}

return decimal;

}

}

1. Write a program to find perfect number or not.

class perfectNumber{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

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

int num=scn.nextInt();

if(num==isPerfect(num)){

System.out.println(num+" is perfect number");

}

else{

System.out.println(num+" is not a perfect number");

}

}

static int isPerfect(int num){

int sum=0;

for(int i=1;i<num-1;i++){

if(num%i==0){

sum+=i;

}

}

return sum;

}

}

1. Write a program to implement ArrayList.
2. Write a program to find maximum repeated words from a file.
3. Wrie a program to find out duplicate characters in a string.

class duplicateChar{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

System.out.println("Enter a String");

String str = scn.next();

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

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

if((str.charAt(i))==(str.charAt(j))){

System.out.println(str.charAt(i));

}

}

}

}

}

1. Write a program to find top two maximum numbers in a array.

class maxTwo{

public static void main(String[] args){

int[] arr = {12,23,1,45,67,22};

int max=0;

int max2=0;

for (int i:arr){

if(i>max){

max2=max;

max=i;

}

}

System.out.println(max);

System.out.println(max2);

}

}

1. Write a program to sort a map by value.
2. Write a program to find common elements between two arrays.

class comElementArray{

public static void main(String[] args){

int[] arr1 ={12,23,34,45,90};

int[] arr2 ={34,546,78,90,12};

for(int i=0;i<=arr1.length-1;i++){

for(int j=0;j<=arr2.length-1;j++){

if(arr1[i]==arr2[j])

{

System.out.println(arr1[i]);

}

}

}

}}

1. How to swap two numbers without using temporary variable?

class swapTwoNo{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

System.out.println("Enter 1st elemnt");

int i = scn.nextInt();

System.out.println("Enter 2nd elemnt");

int j = scn.nextInt();

i=i+j;

j=i-j;

i=i-j;

System.out.println("1st elemnt is "+i);

System.out.println("2nd elemnt is "+j);

}}

1. Write a program to print fibonacci series

class febonnaci{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

System.out.println("Enter the range");

int range=scn.nextInt();

System.out.print("0 1 ");

int var =1;

int j=0;

int sum=0;

do{

sum =var+j;

System.out.print(sum+" ");

j=var;

var =sum;

}while(sum<range);

}

}

1. Write a program to find sum of each digit in the given number using recursion.

class findRecurtion

{

public int sum=0;

java.util.Scanner scn = new java.util.Scanner(System.in);

public int num = scn.nextInt();

public static void main(String[] args)

{

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

findRecurtion obj =new findRecurtion();

obj.sum();

System.out.println("Sum of number is: "+obj.sum);

}

public void sum()

{ if(num>0){

sum +=num%10;

num =num/10;

sum();

}

}

}

1. Write a program to check the given number is a prime number or not?

class primeNumber{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

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

int num = scn.nextInt();

isPrime(num);

}

static void isPrime(int num){

int flag =1;

if(num==0||num==1){

System.out.println("0 and 1 are not prime numbers");

System.exit(0);

}

for(int i=2;i<num-1;i++){

if((num%i)==0){

flag =0;

break;

}

}

if(flag==0){

System.out.println(num+" is not a Prime number");

}

else{

System.out.println(num+" is a prime number");

}

}

}

1. Write a program to find the given number is Armstrong number or not?

class armStrNum{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

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

int num=scn.nextInt();

if(num==isArmstrong(num)){

System.out.println(num+ " is a armstrong number");

}

else{

System.out.println(num+" Not armstrong number");

}

}

static int isArmstrong(int num){

int sum=0;

while(num>0){

int var = num%10;

sum +=var\*var\*var;

num=num/10;

}

return sum;

}

}

1. Write a program to convert binary to decimal number.

class binaryToDecimal{

public static void main(String[] args){

java.util.Scanner scn = new java.util.Scanner(System.in);

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

int num = scn.nextInt();

String decimal = binaryToDecimal.bTD(num);

System.out.print(decimal);

}

static String bTD(int num){

String decimal ="";

if(num==0){

return "0";

}

while(num>0){

//System.out.print(num%2);

int dig=num%2;

decimal= dig+decimal;

num=num/2;

}return decimal;

}

}

1. Write a program to check the given number is binary number or not?
2. Write a program for Bubble Sort in java.
3. Write a program for Insertion Sort in java.
4. Write a program to implement hashcode and equals.
5. How to get distinct elements from an array by avoiding duplicate elements?
6. Write a program to get distinct word list from the given file.

**public** **class** distinctWord {

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

BufferedReader br =**null**;

FileReader fr = **null**;

String line = **null**;

ArrayList<String> str = **new** ArrayList<String>();

ArrayList<String> chk = **new** ArrayList<String>();

br = **new** BufferedReader(**new** FileReader("E:\\STUDY\\read.txt"));

**while**((line=br.readLine())!=**null**)

{

String[] arr = line.split(" ");

**for**(String s:arr)

{

str.add(s);

}

}

**for**(String sr:str)

{

**if**(!chk.contains(sr)){

chk.add(sr);

System.*out*.println(sr);

}

}

}

}

1. Write a program to get a line with max word count from the given file

**public** **class** maxWord {

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

BufferedReader br = **null**;

FileReader fr =**null**;

String line =**null**;

**int** max=0;

String maxLine=**null**;

br = **new** BufferedReader(**new** FileReader("E:\\STUDY\\read.txt"));

**while**((line=br.readLine())!=**null**)

{

String[] str = line.split(" ");

**if**(max<str.length)

{

max=str.length;

maxLine = line;

}

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

}}

1. Write a program to convert string to number without using Integer.parseInt() method.
2. Write a program to find two lines with max characters in descending order.
3. Write a program to find the sum of the first 1000 prime numbers.
4. Find longest substring without repeating characters.
5. Write a program to remove duplicates from sorted array.
6. How to sort a Stack using a temporary Stack?