

## Java Interview Programs:

### 1.Fibonacci series

```
public class FiboRecursion {

    public static void main(String[] args) {

        //int num1=10;
        /*int num2=0;
        int num3=1;
        int next;
        for(int i=0;i<=num1;i++){
            next=num2+num3;
            System.out.println(next);
            num2=num3;
            num3=next;

        }*/
        FiboRecursion fibo = new FiboRecursion();
        fibo.nextFibo(0, 1);

    }

    public void nextFibo(int f, int s){

        int next=f+s;

        f=s;
        s=next;
        System.out.println(next);
        if(next < 1000)
            nextFibo(f, s);

    }

}
```

### 2.polyndrom

```
public class Palyndrome {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int num=12261;
        int rev=0;
        int origina = num;
        while(num>0){
            rev = rev*10;
            rev = rev+num%10;
            num = num/10;
        }
        System.out.println(rev);
        if(origina == rev)
```

```

        System.out.println("poi");
    }
}

```

### 3.Prime numbers

```

public class primeNumber {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int num=23;
        boolean isPrime = true;
        for(int i=2;i<23;i++){
            if(num%i==0){
                System.out.println("its not a prime number");
                isPrime = false;
                break;
            }
        }
        if(isPrime){
            System.out.println("Prime");
        }
    }
}

```

### 4.How swap two numbers without using third variable.

```

package JavaBasics;

public class SwapTwoNumbers {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int x=30;
        int y=20;
        x=x+y;
        y=x-y;
        x=x-y;
        System.out.println(x);
        System.out.println(y);
    }

}

```

### 5.Write a program to reverse a string using recursive algorithm

```

package JavaBasics;

public class StringReverse {

```

```

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        //String is a immutable object so we don't have reverse function
for string
        //But StringBuffer is a mutable class so we have reverse function
in stringBuffer
        String str="selenium";
        String rev="";
        int len=str.length();
        System.out.println(len);
        for(int i=len-1;i>=0;i--){
            rev=rev + str.charAt(i);
        }
        System.out.println(rev);
        //using reversr method
StringBuffer sf=new StringBuffer(str);
        System.out.println(sf.reverse());

    }

}

```

6. Write a program to reverse a number.

```

public class ReverseInteger {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        /*int i=123456;
        int rev=0;
        while(i!=0){
            rev=rev*10+i%10;
            i=i/10;
        }*/

        int i = 123987;
        int rev;// = 789321;

        rev = 0;

        while(i>0){
            rev = rev*10;
            rev = rev + i%10;
            i = i/10;

            System.out.println(rev);
        }
        System.out.println(rev);

    }

}

```

7. Write a program to find perfect number

```
public class PerfectNumber {

    public boolean isperfectnumber(int num) {
        int temp=0;
        for(int i=1;i<=num/2;i++){
            if(num%i==0){
                temp=temp+i;
            }
        }
        if(temp==num){
            System.out.println(num + "is perfect number");
            return true;
        }
        else{
            System.out.println(num + "is not perfect number");
            return false;
        }
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        //10=1+2+5+10

        PerfectNumber pn=new PerfectNumber();
        System.out.println("is perfect number"+
pn.isperfectnumber(8));

    }

}
```

8. Write a program to implement Array list.

9. Write a program to find Duplicate characters in a string

```
public class DuplicatesString {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        String str="java2novoice";
        char[] inp=str.toCharArray();
        //System.out.println(inp);
        for(int i=0;i<str.length();i++){
            for(int j=i+1;j<str.length();j++){
                if(inp[i]==inp[j]){
                    System.out.println(inp[j]);
                }
            }
        }

    }

}
```

## 10.Remove junk Characters/Special characters in a string

```
package JavaBasics;

public class RemoveJunk {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String s= "dfry3@$juyi6447#^*&";
        s=s.replaceAll("[^a-zA-Z0-9]", "");
        System.out.println(s);

    }

}
```

## 11.Write program to find Armstrong or not