Java interview programs:

# **1.Verify a number is Even/Odd**

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| import java.util.Scanner;  public class EvenOdd{ public static void main(String[] args){  Scanner in = new Scanner(System.in);  System.out.println("Enter a number which you want to check whether that is even or odd");  int n = in.nextInt();  if(n%2==0){ System.out.println(n+" is an even number."); }  else{ System.out.println(n+" is an odd number."); }}} |
| Output:  Enter a number which you want to check whether that is even or odd  4  4 is an even number. |

# **2.Swapping Numbers without using 3rd variable**

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| import java.util.Scanner;  public class Swapping{ public static void main(String[] args){  Scanner in = new Scanner(System.in);  System.out.println("Enter the 1st number: ");  int x = in.nextInt();  System.out.println("Enter the 2nd number: ");  int y = in.nextInt();  System.out.println("Initial value of x: "+x+" and y: "+y);  x = x+y;  y = x-y;  x = x-y;  System.out.println("After swapping value of x: "+x+" and y: "+y); }} |
| Output:  Enter the 1st number: 43  Enter the 2nd number: 56  Initial value of x: 43 and y: 56  After swapping value of x: 56 and y: 43 |

# **3.Factorial of a number**

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| import java.util.Scanner;  public class Factorial{ public static void main(String[] args){  Scanner in = new Scanner(System.in);  System.out.println("Enter the number whose factorial you want: ");  int n = in.nextInt();  int temp =1;  for(int i=n; i >0; i--){ temp = temp\*i; }  System.out.println("Factorial of "+n+" is "+f); } } |
| Output  Enter the number whose factorial you want: 6  Factorial of 6 is 720 |

# **4.Check if a number is Armstrong or not.**

Note- A number is armstrong if the sum of the cubes of digit of number is equal to the number.

ex- 407 = 4\*4\*4 + 0\*0\*0 + 7\*7\*7

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| import java.util.Scanner;  public class ArmstrongNum{ public static void main(String[] args){  Scanner in = new Scanner(System.in);  System.out.println("Enter a number: ");  int n = in.nextInt();  int a = n, r=0, temp=0;  while(a!=0){  r = a%10;  a = a/10;  temp = temp + r\*r\*r; }  if(temp==n){ System.out.println("Number "+n+" is an armstrong number.");}  else{ System.out.println("Number "+n+" is not an armstrong number."); }}} |
| Output  Enter a number which you want to check whether that is armstrong or not: 407  Number 407 is an armstrong number. |

# **5.Floyd Triangle**

Note- Floyd Triangle is like

1

2 3

4 5 6

7 8 9 10

|  |
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| import java.util.Scanner;  public class FloydTriangle{  public static void main(String[] args){  Scanner in = new Scanner(System.in);  System.out.println("Enter the number of rows which you want in your Floyd Triangle: ");  int r = in.nextInt();  int count=0;  for(int i=0; i<=r; i++){  for(int j=0; j<=i; j++){  count=count+1; //also use ++n  System.out.print(count+" "); }  System.out.println();  }}} |
| Output:  Enter the number of rows which you want in your Floyd Triangle: 5  1  2 3  4 5 6  7 8 9 10  11 12 13 14 15 |

# **6.Palindrome of String or reverse a String.**

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| import java.util.Scanner;  public class PalindromeString{ public static void main(String[] args){  Scanner in = new Scanner(System.in);  System.out.println("Enter the string: ");  String s = in.nextline();  String s1 = "";  for(int i=s.length()-1; i>=0; i--){ s1 = s1+s.charAt(i); }  System.out.println("Reverse of entered string "+s+" is "+s1);  if(s1.equals(s)){ System.out.println("String "+s+" is palindrome."); }  else{ System.out.println("String "+s+" is not palindrome."); }}} |
| Output:  Enter the string : selenium  Reverse of entered string selenium is muineles  String selenium is not palindrome. |

# **7.Prime number or not**

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| package hello;  import java.util.Scanner;  public class prime{ public static void main(String[] args) {  Scanner in = new Scanner(System.in);  int count=0;  System.out.println("enter the number");  int j=in.nextInt();  for(int i=2;i<=j/2;i++){  if(j%i==0){  count++; }}  if(count==0){ System.out.println("it is prime number"); }  else{ System.out.println("it is not"); }}} |

# **8.Java program to convert binary to decimel and decimel to binary:**

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| import java.util.Scanner;  public class DecimalFromBinary {  public static void main(String[] args) {    Scanner in = new Scanner( System.in );  System.out.println("Enter binary number: ");    int binarynum =in.nextInt();  int binary=binarynum;    int decimal =0, power = 0;    while(true){  if(binary == 0){ break; }  else {  int tmp = binary%10;  decimal += tmp\*Math.pow(2, power);  binary = binary/10;  power++; }}    System.out.println("Binary="+binary+" Decimal="+decimal); ; }} |  |
| Output:  Enter a binary number: 101  Binary=101 Decimal=5 |  |

# **9.Fibbonoci series**

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| public static void main(String[] args) {  int i=0,j=1,k=0;  System.out.println(i);  System.out.println(j);  while(k<100){  k=i+j;  System.out.println(k);  i=j;  j=k;  }}} |
| 0,1,1,2,3,5,8,13,21,34,55,89,144 |