

BIG DATA FRAMEWORKS CSE3120

LAB 1 (Java Practice)

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Q1: Find odd numbers

Main.java	Output
<pre>1- import java.util.Scanner; 2- public class Main 3- { 4- public static void main(String[] args) { 5- Scanner input = new Scanner(System.in); 6- int n = input.nextInt(); 7- 8- for(int i=1;i<=n;i=i+2){ 9- System.out.println(i); 10- } 11- } 12- }</pre>	<pre>50 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 === Code Execution Successful ===</pre>

Q2: Find sum of odd numbers

Main.java	Output
<pre>1- import java.util.Scanner; 2- 3- public class Main 4- { 5- public static void main(String[] args) { 6- Scanner input = new Scanner(System.in); 7- int n = input.nextInt(); 8- 9- int sum=0; 10- 11- for(int i=1;i<=n;i++){ 12- if(i%2==1){ 13- sum=sum+i; 14- } 15- } 16- 17- System.out.println(sum); 18- } 19- }</pre>	<pre>100 2500 === Code Execution Successful ===</pre>

Q3: Find if a number is palindrome

Main.java	Output
<pre>1- import java.util.Scanner; 2 3- class Main{ 4- public static void main(String[] args){ 5 Scanner in = new Scanner(System.in); 6 7 int n= in.nextInt(); 8 int n_copy = n; 9 10 int m = 0; 11 12 13- while(n>0){ 14 m = 10*m + n%10; 15 n = n/10; 16 } 17 System.out.println("N:"+n_copy+"\nM:"+m); 18- if(n_copy==n){ 19 System.out.println("Palindrome!!!"); 20 } 21- else{ 22 System.out.println("Not a palindrome!"); 23 } 24 } 25 }</pre>	<pre>54 N:54 M:45 Not a palindrome! === Code Execution Successful ===</pre>

Q4 Print following pattern

```
*
**
***
****
*****
```

Main.java	Output
<pre>1- import java.util.Scanner; 2 3- public class Main 4- { 5- public static void main(String[] args) { 6 Scanner input = new Scanner(System.in); 7 int n = input.nextInt(); 8 9 //System.out.println("Hello World"+n); 10 for(int i=0;i<n;i++){ 11 for(int j=0;j<=i;j++){ 12 System.out.print("*"); 13 } 14 System.out.println(); 15 } 16 } 17 }</pre>	<pre>5 * ** *** **** ***** === Code Execution Successful ===</pre>

Q5 Print this pattern

```
1
121
12321
1234321
123454321
```

Main.java	Output
<pre>1- import java.util.Scanner; 2 3- class Main{ 4- public static void main(String[] args){ 5 Scanner in = new Scanner(System.in); 6 7 int n= 5;//in.nextInt(); 8 9 for(int i=0;i<2*n;i+=2){ 10 int a = 0; 11 12 //System.out.println("i"+i); 13 14 for(int j=1;j<=i+1;j++){ 15 if(j>(i+1)/2){ 16 System.out.print(j-a); 17 a=a+2; 18 } 19 else{ 20 System.out.print(j); 21 } 22 } 23 System.out.println(""); 24 } 25 } 26 }</pre>	<pre>1 121 12321 1234321 123454321 === Code Execution Successful ===</pre>

Q6 Find minimum and maximum in an array

Main.java	Output
<pre>1- import java.util.Scanner; 2 import java.util.Arrays; 3- class Main{ 4- public static void main(String[] args){ 5 Scanner in = new Scanner(System.in); 6 7 int n= in.nextInt(); 8 int arr[] = new int[n]; 9 10 for(int i=0;i<n;i++){ 11 arr[i]=in.nextInt(); 12 } 13 14 System.out.println(Arrays.toString(arr)); 15 16 int max = Integer.MIN_VALUE; 17 int min = Integer.MAX_VALUE; 18 19 for(int i=0;i<n;i++){ 20 if(arr[i]>max){ 21 max=arr[i]; 22 } 23 if(arr[i]<min){ 24 min=arr[i]; 25 } 26 } 27 28 System.out.println("MIN: "+min+"\nMAX: "+max); 29 } 30 } 31 } 32 }</pre>	<pre>5 3 5 7 1 2 [3, 5, 7, 1, 2] MIN: 1 MAX: 7 === Code Execution Successful ===</pre>