Assignment No:-3

Name:-Suryawanshi Sangramsingh Sambhaji

Batch:-April   Date:-1/5/2024

1. Display numbers from 1 to 100.

```java
import java.util.*;
public class DispalyOneToHundreadNum
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given Numbers 1 To 100 :");
                int i = 1;
                while(i<=n)
                {
                        System.out.print(" "+i);
                        i++;
                }

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalyOneToHundreadNum
Enter given number:
100
Given Numbers 1 To 100 :
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83
 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>
```

2. Display all even numbers from 1 to 100.

```java
import java.util.*;
public class DispalyEvenNumbersOneToHundread
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given Even Numbers 1 To 100 :");
                int i = 1;
                while(i<=n)
                {
                        if(i%2==0)
                        {
                                System.out.print(" "+i);
                        }
                        i++;
                }

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalyEvenNumbersOneToHundread.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalyEvenNumbersOneToHundread
Enter given number:
100
Given Even Numbers 1 To 100 :
 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82
84 86 88 90 92 94 96 98 100
```

3. Write a program to print all natural numbers from 1 to n. - using while loop.

```java
import java.util.*;
public class DispalyOneToHundreadNuturalNum
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given natural Numbers 1 To n :");
                int i = 1;
                while(i<=n)
                {
                        System.out.print(" "+i);
                        i++;
                }

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalyOneToHundreadNuturalNum.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalyOneToHundreadNuturalNum
Enter given number:
50
Given natural Numbers 1 To n :
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
 44 45 46 47 48 49 50
```

4. Write a program to print all natural numbers in reverse (from n to 1). - using While loop.

```java
import java.util.*;
public class DispalyReverseNaturalNum
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given reverse natural Numbers n To 1 :");
                int i = 100;
                while(i>=n)
                {
                        System.out.print(" "+i);
                        i--;
                }

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalyReverseNaturalNum.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalyReverseNaturalNum
Enter given number:
1
Given reverse natural Numbers n To 1 :
 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61
 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21
 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
```

5. Write a program to print all odd numbers between 1 to 100. - Using while Loop.

```java
import java.util.*;
public class DispalyOddNumbersOneToHundread
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given Odd Numbers 1 To 100 :");
                int i = 1;
                while(i<=n)
                {
                        if(i%2!=0)
                        {
                                System.out.print(" "+i);
                        }
                        i++;
                }

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalyOddNumbersOneToHundread.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalyOddNumbersOneToHundread
Enter given number:
100
Given Odd Numbers 1 To 100 :
 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 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83
 85 87 89 91 93 95 97 99
```

6. Write a program to print all odd number between 1 to 100.

```java
import java.util.*;
public class  DispalyOddNumbersOneToHundreadUsingNested
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given Odd Numbers 1 To 100 :");
                int i = 1;
                while(i<=n)
                {
                        if(i%3==0)
                        {
                                System.out.print(" "+i);
                        }
                        i++;
                }

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalyOddNumbersOneToHundreadUsingNested.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalyOddNumbersOneToHundreadUsingNested
Enter given number:
100
Given Odd Numbers 1 To 100 :
 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96 99
```

7. Write a program to find sum of all natural numbers between 1 to n.

```java
import java.util.*;
public class DispalySumOfNaturalNumbers
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given natural Numbers 1 To n :");
                int i = 1;
                int sum = 0;
                while(i<=n)
                {
                        System.out.print(" "+i);
                        sum+=i;
                        i++;
                }
                System.out.println("\n------------------------------");
                System.out.println("Sum of natural numbers: "+sum);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalySumOfNaturalNumbers.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalySumOfNaturalNumbers
Enter given number:
20
Given natural Numbers 1 To n :
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
----------------------------
Sum of natural numbers: 210
```

8. Write a program to find sum of all even numbers between 1 to n.

```java
import java.util.*;
public class DispalySumOfEvenlNumbers
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given even Numbers 1 To n :");
                int i = 1;
                int sum = 0;
                while(i<=n)
                {
                        if(i%2==0)
                        {
                                System.out.print(" "+i);
                                sum+=i;
                        }
                        i++;
                }
                System.out.println("\n-------------------------------");
                System.out.println("Sum of even numbers: "+sum);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalySumOfEvenlNumbers.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalySumOfEvenlNumbers
Enter given number:
20
Given even Numbers 1 To n :
 2 4 6 8 10 12 14 16 18 20
---------------------------
Sum of even numbers: 110
```

9. Write a program to find sum of all odd numbers between 1 to n.

```java
import java.util.*;
public class DispalySumOfOddlNumbers
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given odd Numbers 1 To n :");
                int i = 1;
                int sum = 0;
                while(i<=n)
                {
                        if(i%2!=0)
                        {
                                System.out.print(" "+i);
                                sum+=i;
                        }
                        i++;
                }
                System.out.println("\n------------------------------");
                System.out.println("Sum of odd numbers: "+sum);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalySumOfOddlNumbers.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalySumOfOddlNumbers
Enter given number:
20
Given odd Numbers 1 To n :
 1 3 5 7 9 11 13 15 17 19
----------------------------
Sum of odd numbers: 100
```

10. Display all odd numbers from 200 to 300.

```java
import java.util.*;
public class DisplayOddNumbers
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Given odd Numbers 200 To 300 :");
                int i = 200;
                while(i<=n)
                {
                        if(i%2!=0)
                        {
                                System.out.print(" "+i);
                        }
                        i++;
                }
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DisplayOddNumbers.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DisplayOddNumbers
Enter given number:
300
Given odd Numbers 200 To 300 :
 201 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233 235 237 239 241 243 245 247 249 251 253 255 257 259
261 263 265 267 269 271 273 275 277 279 281 283 285 287 289 291 293 295 297 299
```

11. Write a program enter your name and print it five times.

```java
import java.util.*;
public class DisplayNameFiveTimes
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Entered name Repeated upto five times:");
                int i = 1;
                while(i<=n)
                {
                        System.out.println("Suryawanshi Sangramsingh");
                        i++;
                }
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DisplayNameFiveTimes.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DisplayNameFiveTimes
Enter given number:
5
Entered name Repeated upto five times:
Suryawanshi Sangramsingh
Suryawanshi Sangramsingh
Suryawanshi Sangramsingh
Suryawanshi Sangramsingh
Suryawanshi Sangramsingh
```

12. Write a program take input first and last no and display all odd numbers between them and find sum and count.

```java
import java.util.*;
public class DispalySumAndCountOfFirstAndLastInputOdd
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter first number:");
                int i = sc.nextInt();
                System.out.println("Enter last number:");
                int n = sc.nextInt();
                System.out.println("odd number:");
                int count = 0;
                int sum = 0;
                while(i<=n)
                {
                        if(i%2!=0)
                        {
                                sum+=i;
                                System.out.println(i);
                                count++;
                        }
                        i++;
                }
                System.out.println("\n-------------------------------");
                System.out.println("Sum of odd numbers: "+sum);
                System.out.println("Count of odd numbers: "+count);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalySumAndCountOfFirstAndLastInputOdd.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalySumAndCountOfFirstAndLastInputOdd
Enter first number:
2
Enter last number:
8
odd number:
3
5
7

----------------------------
Sum of odd numbers: 15
Count of odd numbers: 3
```

13. Write a program take input first and last no and display all even numbers between them and find sum and find sum and count.

```java
import java.util.*;
public class DispalySumAndCountOfFirstAndLastInputEven
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter first number:");
                int i = sc.nextInt();
                System.out.println("Enter last number:");
                int n = sc.nextInt();
                System.out.println("even number:");
                int count = 0;
                int sum = 0;
                while(i<=n)
                {
                        if(i%2==0)
                        {
                                sum+=i;
                                System.out.println(i);
                                count++;
                        }
                        i++;
                }
                System.out.println("\n-------------------------------");
                System.out.println("Sum of even numbers: "+sum);
                System.out.println("Count of even numbers: "+count);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalySumAndCountOfFirstAndLastInputEven.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalySumAndCountOfFirstAndLastInputEven
Enter first number:
1
Enter last number:
7
even number:
2
4
6

-----------------------------
Sum of even numbers: 12
Count of even numbers: 3
```

14. Write a program to take input a no and print table.

```java
import java.util.*;
public class DisplayTheGivenTable
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter Table number:");
                int j = sc.nextInt();
                System.out.println("Enter last number:");
                int n = sc.nextInt();
                System.out.println("Table of "+j+" number:");
                int i = 1;
                while(i<=n)
                {
                        System.out.println(i*j);
                        i++;
                }
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DisplayTheGivenTable.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DisplayTheGivenTable
Enter Table number:
5
Enter last number:
10
Table of 5 number:
5
10
15
20
25
30
35
40
45
50
```

15. Find the sum of even number of n digit number.

```java
import java.util.*;
public class DispalySumOfEvenNumbers
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int n = sc.nextInt();
                System.out.println("Enter given number:");
                int i = sc.nextInt();
                System.out.println("Given even Numbers 1 To n :");
                int sum = 0;
                while(i<=n)
                {
                        if(i%2==0)
                        {
                                sum+=i;
                                System.out.println(i);
                        }
                        i++;

                }
                System.out.println("\n-------------------------------");
                System.out.println("Sum of even numbers: "+sum);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac DispalySumOfEvenNumbers.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java DispalySumOfEvenNumbers
Enter given number:
8
Enter given number:
1
Given even Numbers 1 To n :
2
4
6
8

-----------------------------
Sum of even numbers: 20
```