

FULL STACK DEVELOPMENT- WORKSHEET – 1

1. Printing pattern

```
public class Pattern
{
    public static void main(String[] args)
    {
        for(int i=1; i <=4 ; i++)
        {
            for(int j=1; j <=i ; j++)
            {
                System.out.print("*");
            }

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

2. Swap 2 numbers

```
public class Swap
{
    public static void main(String[] args)
    {
        int x = 10;
        int y = 20;
        int temp;

        System.out.println("before swapping : x = " + x + " y = " + y);

        temp = x;
        x = y;
        y = temp;

        System.out.println("after swapping : x = " + x + " y = " + y);
    }
}
```

3. Sum of fibonacci series numbers

```
import java.util.Scanner;
public class FibonacciSeriesSum
{
    public static void main(String[] args)
```

```

{
    int len;
    Scanner se = new Scanner(System.in);
    System.out.println("enter length: ");
    len = se.nextInt();

    int sum=1;
    int fib =0;
    int a,b;
    if(len ==1)
        sum= 0;
    if(len == 2)
        sum = 1;

    if(len >= 3)
    {
        a=0;
        b=1;
        for(int i = 3; i <= len; i++)
        {
            fib = a+b;
            sum = sum + fib;
            a = b;
            b = fib;
        }
    }
    System.out.println("sum is: "+sum);
}
}

```

4. Largest element in array

```

public class LargestElement
{
    public static void main(String[] args)
    {
        int[] arr = {3,7,2,5,1,49};
        int len = arr.length;
        int largest = arr[0];
        for(int i=1; i<len; i++)
        {
            if(arr[i] > largest)
                largest = arr[i];
        }
        System.out.println("largest element: " + largest);
    }
}

```

5.Finding duplicates in array

```
import java.util.*;

public class RemoveDuplicates
{
    public static void main(String[] args)
    {
        int[] arr = {1,2,2,3,3,3,4,5};
        int len = arr.length;
        Set<Integer> set = new HashSet<Integer>();

        int j = 0;

        for(int i=1; i<len; i++)
        {
            set.add(arr[i]);
        }

        System.out.println(set);
    }
}
```