

Day 3 Assignment

Q1) The set of positive numbers starting from 1 is known as Natural Numbers. The sum of the first N natural numbers is given by the formula $[N * (N + 1)] / 2$ For example, given a number 5, the sum of the first 5 natural numbers will be $[5 * (6)] / 2 = 15$

- Write a Java class with a static method that will take a number as a parameter, and print the sum of the natural number from 1 to the number supplied as the method argument.
- Call the above-defined method from the main method of that class by supplying any number as an argument and print the result.

Q2) The prime factors of a number are all of the integers below that number that are divisible into the number as well as 1. For example, the prime factors of 12 are 1,2,3,4,6, and 12.

- Write a Java class with a static method that will take a number and print all the prime factorial of that number.
- The Supplied number should be between 2 and 100. otherwise, it should print “Invalid number”.
- Call this method from the main method by supplying any valid argument.

Q3) Define Wrapper Classes in Java.

Q4) Explain why the following block of code will give a compile time error?

```
public class Main {  
    public static void main(String[] args) {  
        float f=3.3;  
        System.out.println(f);  
    }  
}
```

Also rectify this code.