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**DATE – 08 Oct 2021**

**BRANCH – BTECH CSE**

**SEC = 13 A**

**UID -20BCS2761**

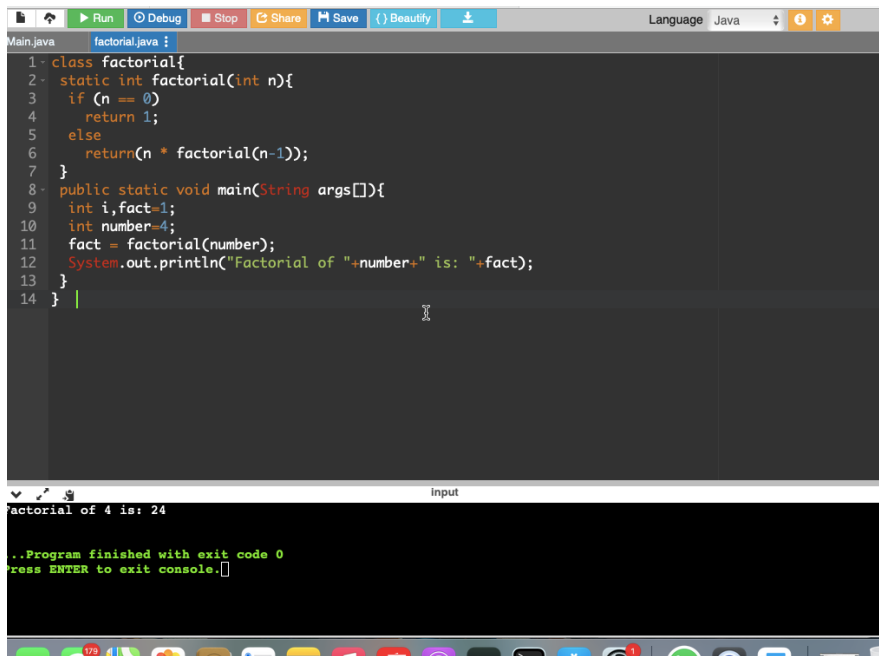
**SUB- JAVA ASSIGNMENT**

Q 1 Write a Java program to find the factorial of a number.

CODE –

```
class factorial{
static int factorial(int n){
if (n == 0)
return 1;
else
return(n * factorial(n-1));
}
public static void main(String args[]){
int i,fact=1;
int number=4;
fact = factorial(number);
System.out.println("Factorial of "+number+" is: "+fact);
}
}
```

**OUTPUT AND COMPILER CODE–**



The screenshot shows an IDE window with a Java file named 'factorial.java'. The code is as follows:

```
1- class factorial{
2- static int factorial(int n){
3-     if (n == 0)
4-         return 1;
5-     else
6-         return(n * factorial(n-1));
7- }
8- public static void main(String args[]){
9-     int i,fact=1;
10-    int number=4;
11-    fact = factorial(number);
12-    System.out.println("Factorial of "+number+" is: "+fact);
13- }
14- }
```

The output console shows the following text:

```
input
factorial of 4 is: 24
..Program finished with exit code 0
press ENTER to exit console.
```