3.

```java
import java.util.Scanner;

public class qu3 {
    public static void main (String[] args){
        Scanner scanner = new scanner(System.in);
        int[] fac =new int[10];
        fac[0] =1;
        for(int i=1; i<10; i++){
            fac[i] = fac[i-1] * i;
        }
        system.out.print("lower bound: ");
        int b1 = Scanner.(System.in);
        system.out.print("Upper bound: ");
        int b2= Scanner.(System.in);

        system.out.println("Factorions: ");
```

IT23005

```java
boolean ff = false;
for (int i= b1 ; i<= b2 ; i++) {
    int sum=0, temp=i;
    while (temp >0)
    { int sum digit = temp %.10;
      sum  += fac[digit];
      temp /= 10;  }
    if (sum ==i) {
        if (ff)
            System. out. println(",  ");
    system.out. print (i);
    ff= true;
    }
}
if (!ff)
    system.out.println ("None"); } }
```