

5) Write a C/Java program to accept a no of n from user and print n rows of output as given if $n=4$

1
2 3
4 5 6
7 8 9 10

ans

```
class Rows {  
    public static void main (String args[]) {  
        int s[] = new int[4][4];  
        s[0] = new int[1];  
        s[1] = new int[2];  
        s[2] = new int[3];  
        s[3] = new int[4];  
        int i, j, k=1;  
        for (i=0; i<4; i++)  
            for (j=0; j<i+1; j++)  
                s[i][j] = k++;  
        for (i=0; i<4; i++)  
            for (j=0; j<i+1; j++)  
                System.out.print (s[i][j] + " ");  
            System.out.println();  
        }  
    }  
}
```


4) Write a C/Java program to accept CIE (out of 50) and SEE (out of 100) of a student and print his/her grade. Use if/else

ans

```
class student {
```

```
    public static void main (String args []) {
```

```
        int m = 30 ;
```

```
        int m1 = 80 ;
```

```
        int total = m + m1 / 2 ;
```

```
        if (total >= 90 ) {
```

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

```
        else if (total >= 80 && total < 90) {
```

```
            System.out.print ("A grade") ; } 
```

```
        else if (total >= 70 && total < 80) {
```

```
            System.out.print ("B grade") ; } 
```

```
        else if (total >= 60 && total < 70) {
```

```
            System.out.print ("C grade") ; } 
```

```
        else if (total >= 50 && total < 60) {
```

```
            System.out.print ("D grade") ; } 
```

```
        else if (total >= 40 && total < 50) {
```

```
            System.out.print ("E grade") ; } 
```

```
        else if (total < 40) {
```

```
            System.out.print ("F grade") ; } 
```

```
    }
```

```
}
```


5) Write JAVA program to print prime numbers between two integers (inclusive). Accept these two integers from user

```
class Prime {
```

```
    public static void main (String args[]) {
```

```
        int flag=0;
```

```
        int a;
```

```
        int b=20;
```

```
        for (a=2; a<=b; a++)
```

```
        {
```

```
            for (int k=2; k<=a/2; k++)
```

```
            {
```

```
                if (a%k==0)
```

```
                {
```

```
                    flag=1;
```

```
                    break;
```

```
                }
```

```
            if (flag==0)
```

```
            {
```

```
                System.out.println(a);
```

```
            }
```

```
        }
```



```

6) class areaVol {
    public static void main (String args[]) {
        double r = 15, h = 25;
        System.out.println ("Radius: " + r, "Height: " + h);

        double cya = 2 * 3.14 * r * h + 2 * 3.14 * r * r;
        double cyv = 3.14 * r * r * h;

        double ca = 3.14 * r * r + 3.14 * r * math.sqrt
            (4 * h + r * r);

        double cv = 3.14 * r * r * h / 3;

        double sa = 4 * 3.14 * r * r;
        double sv = 4 / 3 * 3.14 * r * r * r;

        System.out.println ("Area of Cylinder: " + cya);
        System.out.println ("Vol of Cylinder: " + cyv);
        System.out.println ("Area of Cone: " + ca);
        System.out.println ("Volume of Cone: " + cv);
        System.out.println ("Area of sphere: " + sa);
        System.out.println ("Volume of sphere: " + sv);
    }
}

```