

Week-2 programs:→

Q.3

class series &.

```
public static void main (String args[])
{
    int s [][] = new int [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;
            k++;
        }
}
```

```

for (i=0; i<4; i++)
{
    for (j=0; j<i+1; j++)
        system.out.println(s[i][j] + " ");
    system.out.println();
}
}
}

```

Q.4

```

class student
{
    public static void main (String args[])
    {
        int math = 28;
        int maths = 78;
        int total = (math + maths) / 2;
        if (total >= 90)
        {
            system.out.println ("Sgrade");
        }
        else if (total >= 80 && total < 90)
        {
            system.out.println ("A grade");
        }
        else if (total >= 70 && total < 80)
        {
            system.out.println ("B grade");
        }
        else if (total >= 60 && total < 70)
        {
            system.out.println ("C grade");
        }
        else if (total >= 50 && total < 60)
        {
            system.out.println ("D grade");
        }
        else if (total >= 40 && total < 50)
        {
            system.out.println ("E grade");
        }
    }
}

```



```

else if (total < 40)
{ system.out.print (" F grade");
}
}
}

```

Q.5 class primes

```

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

```

```

        int a;

```

```

        int b = 20;

```

```

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

```

```

        {
            int f = 0;

```

```

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

```

```

            {
                if (a % k == 0)

```

```

                    { f = 1; break; }

```

```

            }

```

```

            if (f == 0)

```

```

                { system.out.print (a + " "); }

```

```

        }
    }
}

```

Q.6 class areavolume

```
{
    public static void main (String args [])
    {
        double r=15, h=25;
        System.out.println ("radius" + r "height" + h);

        double ca = 2 * 3.14 * r * h + 2 * 3.14 * r * r;
        double cv = 3.14 * r * r * h;
        double ca = 3.14 * r * r + 3.14 * r * Math.sqrt(h * 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" + ca);
        System.out.println ("Volume of cylinder" + cv);
        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);
    }
}
```