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1BM19CS005

Java Programs:

3.
```
import java.util.Scanner;
class p3
{
public static void main(String args[])
 {
 Scanner sc=new Scanner(System.in);
int n,i,j,ctr=1;
System.out.println("Enter value for n");
n= sc.nextint();
for(i=1;i<=n;i++)
{
for(j=1;j<=i;j++)
{
System.out.print(ctr+"\t");
ctr++;
}
System.out.println();
}
}}
```

4.
```
import java.util.Scanner;
class p4
{
public static void main(String args[])
 {
Scanner sc=new Scanner(System.in);
int cie, see, total;
System.out.println("Enter CIE marks out of 50
and SEE marks out of 100");
cie= sc.nextInt();
see= sc.nextInt();
total= cie+(see/2);
```

```
if (total>=90)
System.out.println("S Grade");
else if (total>=80)
System.out.println("A Grade");
else if (total>=70)
System.out.println("B Grade");
else if (total>=60)
System.out.println("C Grade");
else if (total>=50)
System.out.println("D Grade");
else if (total>=40)
System.out.println("E Grade");
else if (total<40)
System.out.println("F Grade");
}
}
```

5.

```
import java.util.Scanner;
class ps
{
public static void main(String args[])
{
Scanner sc=new Scanner(System.in);
int a,b,i,j,nof;
System.out.println("Enter 2 integers(enter the least number first)");
a=sc.nextInt();
b=sc.nextInt();
System.out.println("prime numbers between the given numbers(inclusive):");
for(i=a;i<=b;i++)
{
nof=0;
for(j=1;j<=i;j++)
{
```

```
if (i%j == 0)
nof++;
}
if(nof == 2)
System.out.print(i+"\t");
}
}
```

6.
```
import java.util.Scanner;
class p6
{
public static void main (String args[])
{
Scanner sc = new Scanner(System.in);
int b, p=1;
double r,h,a,v;
while (p==1)
{
System.out.println("Enter the number");
System.out.println("1-Cylinder\n2-Cone\n3-
Sphere\n0-Stop");
b = sc.nextInt();
if (b==0)
break;
switch(b)
{
case 1;
{ System.out.println("Enter radius and height");
r = sc.nextDouble();
h = sc.nextDouble();
a = (2*3.14*r*h) + (2*3.14*r*r);
v = 3.14*r*r*h;
System.out.println("Area = "+a+", Volume = "+v);
}
break;
```

```
case 2:
{
System.out.println("Enter radius and height");
r=sc.nextDouble();
h= sc.nextDouble();
a=(3.14*r)*(r+Math.sqrt((h*h)+(r*r)));
v = (3.14 *r*r*h)/3;
System.out.println("Area="+a+", Volume="+v);
}
break;
case 3:
{
System.out.println("Enter radius");
r= sc.nextDouble();
a= 4*3.14*r*r,
v =(3.14*4*r*r*r)/3;
System.out.println("Area="+a+", Volume="+v);
}
break;
default:
{
System.out.println("Enter a valid number");
}
}
}
}
```