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1BM19CS006

23/9/20 Week - 2

3) Write a Java program to accept a number of n from the user & print n rows of OP as below.

n = 4

1
2 3
4 5 6
7 8 9 10.

```
public class Pattern
{
  public static void main (String [] args) {
    int i, j, n=1;
    for (i=1; i<=4; i++) {
      for (j=1; j<i+1; j++) {
    System.out.print (n++ +" ");
    }
    System.out.println ();
    }
  }
}
```

4) Write a Java program to ~~print~~ accept CIE (50 marks) & SEE (100 marks) of a student & print grade.

```
import java.util.Scanner;
public class Grade {
  public static void main (String [] args) {
    int cie, see;
    double total;
    Scanner scan = new Scanner (System.in);
```

Aditi. A
1BM19CS006

```
System.out.println("Enter cie marks: ");
System.out.println("Enter see marks: ");
cie = scan.nextInt();
see = scan.nextInt();
total = cie + (see/2);

if (total >=90 && total<100) {
    System.out.println("Grade: S");
} else if (total <90 && total >=80) {
    System.out.println("Grade: A");
} else if (total <80 && total >=70) {
    System.out.println("Grade: B");
} else if (total <70 && total >=60) {
    System.out.println("Grade: C");
} else if (total <60 && total >=50) {
    System.out.println("Grade: D");
} else if (total <50 && total >=40) {
    System.out.println("Grade: E");
} else if (total <40) {
    System.out.println("Grade: F");
}
}
}
```

Aditi. A

1BM19CS006

5) Write a java program to ~~accept~~ print prime nos between given 2 integers (inclusive). Accept these from user

```
import java.util.Scanner;
public class Prime_no {
public static void main(String[] args)
{
Scanner sc=new Scanner(System.in);
int n1, n2, i, j, count=0;
System.out.println("Enter 2 numbers: ");
n1 = sc.nextInt();
n2 = sc.nextInt();
System.out.println("Prime numbers between
the 2 numbers are: ");
for (i=n1; i<=n2; i++)
{
for(j=2; j<n; j++)
{
if (i%j==0)
{
count=0;
break;
}
else {
count=1;
}
}
}
```

Adithi. A
1BM19CS006

```
if (count == 1)
{
System.out.println(i);
}
}
}
}
}
```

6)
```
import java.util.Scanner;
import java.lang.Math;
class Area_vol {
public static void main(String[] args)
{
Scanner sc= new Scanner(System.in);

System.out.println("Enter choice: ");
System.out.println("1. Cylinder ");
System.out.println("2. Cone ");
System.out.println("3. Sphere ");
System.out.println("4. Exit ");
int choice = sc.nextInt();

switch(choice)
{
case 1: System.out.println("Radius of cylinder: ");
int rcy = sc.nextInt();
System.out.println("Height of cylinder: ");
int hcy= sc.nextInt();
```

Addl. 1

1BM19CS006

```
double areacy = 2*3.14*rcy*hcy + 2*3.14*rcy*rcy ;
System.out.println("Area of cylinder: "+areacy);
double volcy = 3.14*rcy*rcy*hcy ;
System.out.println("Vol of cylinder: "+volcy);
break;
case 2: System.out.println("Radius of cone: ");
int rco = sc.nextInt();
System.out.println("Height of cone: ");
int hco = sc.nextInt();
double areaco = 3.14*rco*(rco+Math.sqrt(hco*hco
+rco*rco));
System.out.println("Area of cone: "+areaco);
double volco = (3.14*rco*rco*hco)/3.0;
System.out.println("Vol of cone: "+volco);
break;
case 3: System.out.println("Radius of sphere: ");
int rs = sc.nextInt();
double areas = 4*3.14*rs*rs;
System.out.println("Area of sphere: "+areas);
double vols = (4*3.14*rs*rs*rs)/3.0;
System.out.println("Vol of sphere: "+vols);
break;
case 4: System.out.println("Exit");
break;
default: System.out.println("Invalid choice");
break;
}
}
}
```