

Hope you have studied previous lectures so first few tasks are based on previous lecture; whereas; later tasks are related to last lecture.

Task 1: Complete code to write data into file?

```
import java.io.*;
class Labb14_1{
    PSVM (String a[]) throws Exception{
        int a[]={23, 13, 46, 67, 78};
        PrintWriter pw=new PrintWriter("test.txt");
        int i;
        for (i=0;i<a.length;i++)
            pw.print(a[i]+" ");
        pw.close();
    }
}
```

Task 2: Complete code to read and print data written in previous task?

```
import java.io.*;
import java.util.*;
class Labb14_2{
    PSVM (String a[]) throws Exception{
        File file=new File("test.txt");
        Scanner in=new Scanner(file);
        int i;
        for (i=0;i<a.length;i++)
            ?(in.nextInt()+" ");
        in.close();
    }
}
```

Task 3: Store these numbers in file "numbers.txt" using notepad. Write code to read values. Calculate and print average, average should be **14.64865**?

```
46 25 12 18 10 15 23 32 1 12 18 8 1 14 13 14 24 46 34 3 71 51 13 25 23 0 0 0
24 17 45 9 43 45 15 15 4 42 61 55
```

```
File file=new File("numbers.txt");
Scanner in=new Scanner(file);
int sum=0, count=0;
while (in.hasNext()){
    sum=sum+in.nextInt();
    count++;
}
?ln(sum/(double)count);
in.close();
```

Task 4: This is a paragraph taken from internet link is given. Store this in a file and read number of words?

So Programming Is Boring? No!

Computers can be programmed to do interesting things. In the UK, a system has been running for several years that reads car number plates. The car is seen by a camera and the image captured then instantly processed so that the number plate details are extracted, run through a national car registration [database](#) of number plates and any stolen vehicle etc alerts for that vehicle flagged up within four seconds. With the right attachments, a computer could be programmed to perform dentistry. Testing that would be interesting and might be a bit scary!

<http://cplusplus.about.com/od/introductiontoprogramming/p/programmers.htm>

```
File file=new File("paragraph.txt");
Scanner in=new Scanner(file);
int count=0;
while (in.hasNext()){
    in.next();//may store in variable
    count++;
}
?ln(count);
in.close();
```

Task 5: Store scores of batsman in file. Read it and store names in String type variables name1, name2. Take two arrays of size given at start. Read meta-data declare arrays and read scores into them? Later print averages of scores?

5
Saad
23 48 67 12 39
Kaleem
13 28 69 72 19

```
File file=new File("scores.txt");
Scanner in=new Scanner(file);
int i, sum1=0, sum2=0;
String name1, name2;
final double COUNT=in.nextInt();
int scores1[]=new int[COUNT];
int scores2[]=new int[COUNT];
name1=in.next();
for (i=0;i<COUNT;i++){
    scores1[i]=in.nextInt();
    sum1=sum1+scores1[i];
}
?ln(name1+": "+(sum1/COUNT));
name2=in.next();
for (i=0;i<COUNT;i++){
    scores2[i]=in.nextInt();
    sum2=sum2+scores2[i];
}
?ln(name2+": "+(sum2/COUNT));
in.close();
```

Task 6: Modify last task now each player has different number of matches so declare arrays according to their size given after names?

```
Saad 5
23 48 67 12 39
Kaleem 7
13 28 69 72 19 0 5
```

```
File file=new File("scores.txt");
Scanner in=new Scanner(file);
int i, sum1=0, sum2=0;
String name1, name2;
final double COUNT1, COUNT2;
name1=in.next();
COUNT1=in.nextInt();
int scores1[]=new int[COUNT1];
for (i=0;i<COUNT1;i++){
    scores1[i]=in.nextInt();
    sum1=sum1+scores1[i];
}
?ln(name1+": "+(sum1/COUNT1));
name2=in.next();
COUNT2=in.nextInt();
int scores2[]=new int[COUNT2];
for (i=0;i<COUNT2;i++){
    scores2[i]=in.nextInt();
    sum2=sum2+scores2[i];
}
?ln(name2+": "+(sum2/COUNT2));
in.close();
```