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1) Changing file attributes to read only:

```java
import java.io.File;
import java.io.IOException;
 public class Read{
  public static void main(String[] args) throws IOException {
        File myfile = new File("D://ab.txt");
        boolean flag = myfile.setReadOnly();
        if (flag==true)
        {
           System.out.println("File successfully converted to Read only mode!!");
        }
        else
        {
           System.out.println("Unsuccessful Operation!!");
        }}}
```

2)Check whether the file is writable or read only:

```java
import java.io.File;
import java.io.IOException;

public class CheckAttributes
{
    public static void main(String[] args) throws IOException
    {
        File myfile = new File("D://ab.txt");
        if (myfile.canWrite())
        {
           System.out.println("File is writable.");
        }
        else
        {
           System.out.println("File is read only.");
        }
    }
}
```

3)How to make a read only file writable in java:

```java
import java.io.File;
import java.io.IOException;

public class MakeWritable{
  public static void main(String[] args) throws IOException
    {
        File myfile = new File("D://ab.txt");
        myfile.setWritable(true);
        if (myfile.canWrite())
        {
          System.out.println("File is writable.");
        }
        else
        {
          System.out.println("File is read only.");
        }}}
```

changing the file mode to writable

4)How to get input from user in java using BufferedReader class:

```java
import java.io.*;

class Area
{
public static void main(String args[]) throws Exception
{
int a,b,c;
BufferedReader br= new BufferedReader( new InputStreamReader(System.in));
System.out.println("Enter first number:");
a=Integer.parseInt(br.readLine());

System.out.println("Enter second number:");
b=Integer.parseInt(br.readLine());

c = a+b;
System.out.println("Sum of two numbers:"+ c);
}
}
```

"Integer.parseInt" converts 'a' into Integer type

5)How to get input from user in java using Scanner class:

The Scanner class is used to get user input, and it is found in the java.util package. To use the Scanner class, create an object of the class and use any of the available methods found in the Scanner class.

```
import java.util.Scanner;

class Get{
  public static void main(String args[]) {
    int a;
    int  b;
    int c;

    Scanner in = new Scanner(System.in);
    System.out.println("Enter first number ");

a = in.nextInt();

System.out.println("Enter second  number");
    b = in.nextInt();
    c=a+b;
    System.out.println("the result is "+c);
  }}
```

The System.in parameter is used to take input from the standard input.

reads an int value from the user

Similarly, **nextFloat(),nextBoolean(),nextDouble(),nextLong(),nextShort()** are also available to read **float,boolean,double,long ,short** values from users respectively.

Exercise:
1) Calculate simple intrest using scanner class and BufferedReader class.
2) Calculate average,percentage and grade of a student using scanner class.