

Gyakorlat

1) Fibonacci

```
public class Fibonacci {  
  
    public static void main(String[] args) {  
        int a=1;  
        int b=1;  
        for(int i=0; i<20;i++)  
        {  
            System.out.println(b);  
            int temp=a+b;  
            b=a;  
            a=temp;  
        }  
    }  
}
```

2) Random

```
import java.io.BufferedReader;  
import java.io.InputStreamReader;  
import java.util.Random;  
  
public class Main {  
  
    public static void main(String[] args) {  
        Random a=new Random(System.currentTimeMillis());  
        int b=a.nextInt(100);  
        InputStreamReader isr=new InputStreamReader(System.in);  
        BufferedReader br=new BufferedReader(isr);  
        String s;  
        boolean gameover=false;  
        System.out.println("Találd ki melyik számra gondoltam!");  
        try{  
            while( gameover==false)  
            {  
                s=br.readLine();  
                int temp=Integer.parseInt(s);  
                if(b<temp)  
                    System.out.println("Kisebb");  
                else if(b>temp)  
                    System.out.println("Nagyobb");  
                else  
                {  
                    System.out.println("Kitaláltad!");  
                    gameover=true;  
                }  
            }  
        }  
        catch(Exception e)  
        {  
            e.printStackTrace();  
        }  
    }  
}
```

3) Shakespeare

```
import java.io.*;
import java.util.*;
public class Main {

    public static void main(String[] args) {
        HashMap<String, Integer> szavak=new
HashMap<String, Integer>();
        try{
            FileReader fr=new FileReader("romeo.txt");
            BufferedReader br=new BufferedReader(fr);
            String s;
            while((s=br.readLine())!=null)
            {
                s=s.replaceAll("[^A-Za-z0-9 ]", " ");
                String[] words=s.split(" ");
                for(String w: words)
                    if(szavak.containsKey(w))
                        szavak.put(w, szavak.get(w)+1);
                    else
                        szavak.put(w, 1);
            }
            System.out.println(szavak.get("love"));

        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

4) Filesys

```
import java.io.*;
import java.nio.file.FileAlreadyExistsException;
public class Main {
    public static void main(String[] args){
        File now=new File(System.getProperty("user.dir"));
        String separator=System.getProperty("file.separator");
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        String s;
        try{
            while((s=br.readLine())!=null)
            {
                String[] commands=s.split(" ");
                switch(commands[0]){
                case "ls":
                    File[] list=now.listFiles();
                    for(int i=0;i<list.length;i++)

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        System.out.println(list[i].getName());
                break;
        case "cd":
                if(commands.length<2)
                        throw new
        ArrayIndexOutOfBoundsException();
                else if(commands[1]=="..")
                        now=now.getParentFile();
                else
                {
                        File temp = new File(now.getPath() +
separator + commands[1]);
                        if(temp.exists())
                                now=temp;
                        else
                                throw new
        FileNotFoundException();
                }
                break;
        case "mkdir":
                if(commands.length<2)
                        throw new
        ArrayIndexOutOfBoundsException();
                else
                {
                        File temp = new File(now.getPath() +
separator + commands[1]);
                        if(temp.exists())
                                throw new
        FileAlreadyExistsException(temp.getName());
                        else
                                temp.mkdir();
                }
                break;
        case "exit":
                System.exit(0);
}
}
catch(Exception e)
{
        e.printStackTrace();
}
}
}

```