## 27 - (10)Shell Special characters

Space characters

Wildcards     **\***     and     **?**

Quotes        **" "**    and    **' '**

Conversion of       **$**      and     **` `**

```
eg.  echo HOSTNAME
     echo $HOSTNAME
```

Pre-execution of command to use its result as argument to another command using
        **` `**    or    **$(...)**

**$0 $1 $2** ..    Arguments

**$@**            All arguments (not including the $0)

**$#**            Number of arguments (not including the $0)

Sending a program in the background with &

```
xterm &
```

`<Strg>C` to end a program.

**z.B.3**

**Generating a parameter list from file content or command result**

```
touch list1 list3 list5 list7 list10 extra1
echo  list1 list3 list5 list7 list10 extra1 > all_lists
ls -la `cat all_lists`
```

**Übung:**

(10) Lerrzeichen

```
tail -n 5 ~/.bashrc
tail-n 5 ~/.bashrc
```

Wildcards

```
ls /etc/XF* ;  ls -d /sbin/init.d/rc?.d
```

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Characters conversion in bash:

`\a`    alert (bell)

`\b`    backspace

`\c`    suppress trailing newline

`\f`    form feed

`\n`    new line (Line feed)

`\r`    carriage return (CR)

`\t`    horizontal tab

`\v`    vertical tab

`\\`    backslash

`\NNN`  the character whose ASCII code is NNN (octal);
        if NNN is not a valid octal number, it is printed literally.
        eg.
        **\001**        Control-A
        **\002**        Control-B

**Note:**To use these above characters in echo command **-e** option is needed.

eg. **echo -e "hallo \t Robert \n"**

`echo -n` prevents the automatic return at end of printing the
message.

**Metacharacters** are :
```
|  & ; ( ) < > space tab
```

**Operators** are:
```
|| & && ; ;; ( ) | <newline>
```

**Reserved words/characters are:**
```
! case  do  done  elif  else  esac fi for function if in
select then until while { } time [[ ]]
```