

To connect to mars do the following steps:

On your pc at home open the command prompt window.

Then type:

```
telnet mars.netanya.ac.il
```

then type your login name and password

```
basicsys@mars~>pwd  
/home/cs/segel/basicsys
```

```
basicsys@mars~>cd lec1
```

```
basicsys@mars~/lec1>pwd  
/home/cs/segel/basicsys/lec1
```

```
basicsys@mars~/lec1>ls  
F1 F2 last-year lec1-2014.txt
```

```
basicsys@mars~/lec1>cat F1  
abc
```

def

ghe

```
basicsys@mars~/lec1>cat -n F1  
1 abc  
2  
3  
4 def  
5  
6  
7  
8  
9 ghe
```

```
basicsys@mars~/lec1>cat -s F1  
abc
```

def

ghe

```
basicsys@mars~/lec1>cat -s -n F1  
1 abc  
2  
3 def  
4  
5 ghe
```

```
basicsys@mars~/lec1>cat -n -s F1
1 abc
2
3 def
4
5 ghe
```

```
basicsys@mars~/lec1>cat -ns F1
1 abc
2
3 def
4
5 ghe
```

```
basicsys@mars~/lec1>cat -sn F1
1 abc
2
3 def
4
5 ghe
```

```
basicsys@mars~/lec1>cp F1 F2
```

```
basicsys@mars~/lec1>cat F2
abc
```

def

ghe

```
basicsys@mars~/lec1>pico F2
UW PICO 5.04
```

File: F2

abc

def

ghe

```
[ Read 9 lines ]
^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Pg  ^K Cut Text  ^C
Cur Pos
^X Exit      ^J Justify   ^W Where is  ^V Next Pg   ^U UnCut Text^T
To Spell
```

```
^X means to type Ctrl + x
^O means to type Ctrl + x
```

etc...

To save what you wrote type Ctrl+o
To exit type Ctrl+c
To cut line type Ctrl+k
To paste the line/lines that were cut type Ctrl+v

```
basicsys@mars~/lec1>cat F2
1234
4567
```

def

```
basicsys@mars~/lec1>echo abc
abc
```

```
basicsys@mars~/lec1>echo F1
F1
```

```
basicsys@mars~/lec1>date
Sun Oct 20 10:29:19 IDT 2013
```

Instructions to be able to run programs

Do the following just once for the whole course:

1. login to mars
2. write: pico .bashrc
3. then using copy/paste add the following 3 lines to the end of the file .bashrc

```
PS1="\u@\h\w>"
set -C
PATH=$PATH:.
```

(do not add spaces in the above 3 lines!!!!)

4. exit from pico using ctrl+X and save the file
4. write: logout
5. then login again using telnet mars.netanya.ac.il

Instructions on how to run a specific program

-
1. using pico create a file. for example do
pico P2
then write inside the file two commands, for example
pwd
date
then exit pico and save the file
 2. write chmod u+x P2
 3. run the program P2 by typing P2

Instructions on how to register to the course.

in order to be able to register to the course, run
the following command (just one time for the whole semester)

```
~basicsys/register
```

you can run the above command from any directory.
then enter your id number and name and exit.

For example after typing ~basicsys/register
and then giving id as 11111111 and name as udi rotics
the following was seen on the screen:

```
basicsys@mars~>~basicsys/register
Hello you called the basic systems registration program
You need to call it in order to be able to submit exercises.

Please enter your id number (9 digits): 11111111
Please enter your name (first-name and last-name): udi rotics
You entered, id: 11111111 name: udi rotics
OK to update your details: (y/n)? y
Your details were sent for update. It will take several days
Until your details will be updated, bye.
```

Instructions on how to submit exercises

In exercise 1 you have to prepare 4 files, their names
are P1.1 P1.2 P1.3 P1.4

after you prepared the files and tested them, you need will
submit them for check (you have to submit all 4 files in one submit
command). To submit the files for check you write the
command ~basicsys/submit from the directory that contains the 4
files P1.1 P1.2 P1.3 P1.4

Then you will be asked for exercise number .
Then you will be asked for the login name of your partner,
(if you don't have a partner write the login name of yourself there).

Here is an example of the screens I got when I did ~basicsys/submit
from the basicsys login name

```
basicsys@mars~>~basicsys/submit
Hello you have called the submit program
Enter the exercise number: 1
Hello you have called the submit ex1 program.
Note that you can submit files only once.
Do you want to continue (y/n)? y
Enter the login name of your partner (if you do not have a partner
then enter your login name): basicsys
Your user id is: basicsys your partner user id is: basicsys
OK to continue (y/n)? basicsys
You have to enter y or n
y
The files that you have to submit are :
    P1.1 P1.2 P1.3 P1.4
Your file list is: P1.1 P1.2 P1.3 P1.4
Recall that you can submit exercises just once!!!
OK to submit your files (y/n)?
y
Your files where submitted successfully. Bye.
```