

- Login with your *login id* and *password*. Change password using a command `passwd`.
 - Make a directory with name *PH407*. Make a subdirectory with name *Lab1* in *PH407*.
 - Make *Lab1* your current directory.
- Create a file with name `helloworld.c` and type the program given below. Notice that there are two deliberate mistakes in it.

```
/* The first program */

#include <stdio.h>

main() {

    printf("Hello, World")

}
```

When you compile (translate) this program with `cc`, you will get some messages. Read these messages carefully. Correct the program and compile again. Execute with `a.out`.

- Type, compile and execute the following program.

```
/* Arithmetic Expressions */

#include <stdio.h>

main() {

    printf("5 is an integer\n");
    printf("%d is an integer\n",5);

    printf("Approximate value of pi is 22.0/7.0\n");
    printf("Approximate value of pi is %f\n",22.0/7.0);

    printf("100 F corresponds to %f C\n",5.0*(100.0 - 32.0)/9.0);

}
```

- Write a program to evaluate and print the result of the following expressions:
111*111,
 $1.0 + 1.0 + 1.0/2.0 + 1.0/2.0/3.0 + 1.0/2.0/3.0/4.0$
 $2147483648 + 2147483648$
- Write a program that draws a picture of a flower on the screen.

Some Linux Commands File Management

- **cat**— for creating and displaying short files
- **vi**— for creating and editing files
- **cp**— for copying files
- **mv**— for moving and renaming files
- **rm**— remove a file
- **more**— use to read files
- **head**— display first part of file
- **tail**— display last part of file
- **wc**— Find the number of words, characters in a file

Directories

- **mkdir**— create directory
- **rmdir**— remove directory
- **cd**— change directory
- **ls**— see what files you have in current directory
- **pwd**— find out what directory you are in

Miscellaneous

- **chmod**— change permissions
- **date**— display date
- **lpr**— standard print command (see also **print**)

vi Editor Commands in Command Mode.

- arrow keys – for moving the cursor
- **i** or **I** or **a** or **A** – Enter insert mode for typing
- **Esc** key – End the insert mode.
- **x** or **X** – Delete a character
- **d** – Delete a line