Lab instructions
Introduction to Programming
ECS 102, 2018-19 Semester II, IISER Bhopal

- You will get help as you require on the following.

1. Use user ID and password both as “iiserb”.
2. Open a terminal window to enter commands.
3. Create a directory on your name using

   “mkdir firstname_lastname” or “mkdir firstname” …

1. Type the programs in emacs/vi editor. The emacs editor will be good one if you don’t already know vi editor.
2. Compile C program: gcc <filename.c> -o <filename.o>
3. Execute your program to get the output: ./filename.o

Sample C program: Print a string

```
#include <stdio.h>
void main()
{
        printf("Happy New Year!\n");
}
```

Execution

gcc hello.c –o hell.o

./hello.o

Output

Happy New Year!

Sample C program: Add

```
#include <stdio.h>
void main()
{
        int number;
        float amount;
        number = 100;
        amount = 30.75 + 75.35;
        printf("number: %d\n", number);
        printf("amount: %5.2f\n", amount);
}
```

Execution

- gcc add.c –o add.o
- ./add.o

Output

number: 100

amount: 106.10

Sample C program: Celsius to Fahrenheit

```
#include <stdio.h>
void main()
{
        float c = 15.5;
        float f;
        f = 9*c/5 + 32;
        printf("Celsius:  %f,\nFahrenheit: %f\n", c, f);
}
```

Execution

- gcc ctof.c –o ctof.o
- ./ctof.o

Output

Celsius: 15.500000,
Fahrenheit: 59.900002