Lab Report - 02

SE1012 – Programming methodology

Lab 02

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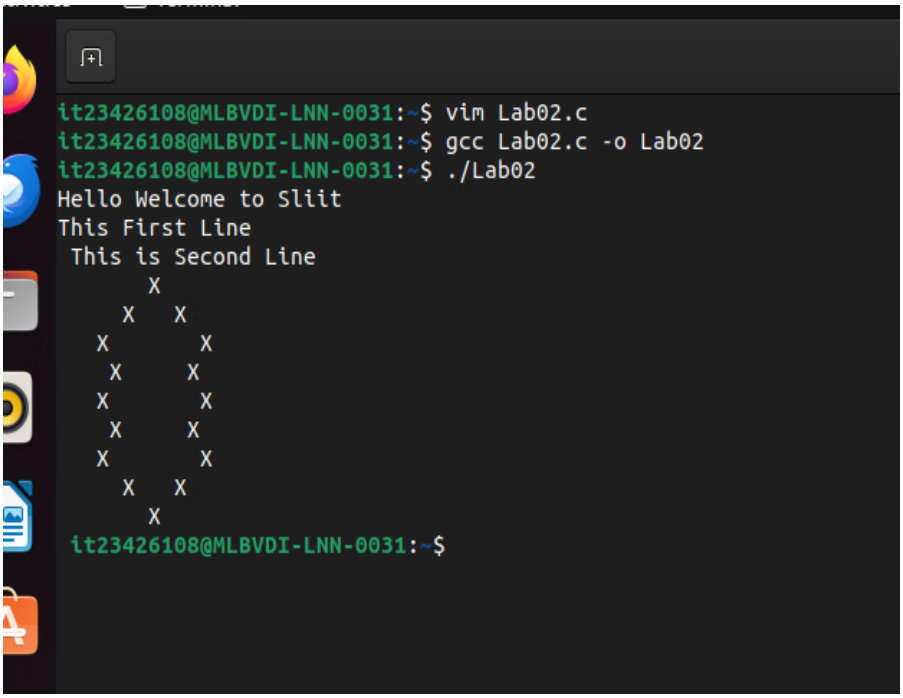
Activity 1:

```c
#include<stdio.h>
//Activity 1
  int main() {
    /*1. */
     printf("Hello Welcome to Sliit \n");

    /*2. */
     printf("This First Line \n This is Second Line\n ");

    /*3. */
           printf("       X      \n ");
           printf("    X   X     \n ");
           printf("  X       X  \n ");
           printf("    X   X    \n ");
           printf("  X       X  \n ");
           printf("    X   X    \n ");
           printf("  X       X  \n ");
           printf("    X   X    \n ");
           printf("       X     \n ");

    return 0;
  }
```



Activity 2:

```c
/* Activity 2*/

#include <stdio.h>

int main() {
    float avg, h1, h2, h3;
    float total, missing_sum, m1, m2;


    printf("Enter the average height of 5 people: ");
    scanf("%f", &avg);

    printf("Enter the heights of the 3 known people:\n");
    scanf("%f %f %f", &h1, &h2, &h3);


    total = avg * 5;


    missing_sum = total - (h1 + h2 + h3);


    m1 = m2 = missing_sum / 2.0;


    printf("The missing heights are approximately: %.2f and %.2f\n", m1, m2);

    return 0;
}
~
```

```
lt23426108@MLBVDI-LNN-0031:~$ vim Lab020.c
lt23426108@MLBVDI-LNN-0031:~$ gcc Lab020.c -o Lab020
lt23426108@MLBVDI-LNN-0031:~$ ./Lab020
Enter the average height of 5 people: 5.4
Enter the heights of the 3 known people:
4.6
6.5
7.0
The missing heights are approximately: 4.45 and 4.45
lt23426108@MLBVDI-LNN-0031:~$ vim Lab020.c
lt23426108@MLBVDI-LNN-0031:~$
```

Activity 3:

```c
//Activity 3
#include <stdio.h>

int main() {
    float perimeter, length, width;


    printf("Enter the perimeter of the rectangular fence: ");
    scanf("%f", &perimeter);

    // Let length = L, then width = 3/4 * L
    // Perimeter = 2 * (length + width)
    // => perimeter = 2 * (L + 3L/4) = 2 * (7L/4) = (7L/2)
    // => length = (2 * perimeter) / 7
    length = (2 * perimeter) / 7;
    width = (3.0 / 4.0) * length;

    // Output the results
    printf("Length of the fence: %.2f units\n", length);
    printf("Width of the fence: %.2f units\n", width);

    return 0;
}
~
```

```
it23426108@MLBVDI-LNN-0031:~$ vim Lab0200.c
it23426108@MLBVDI-LNN-0031:~$ gcc Lab0200.c -o Lab0200
it23426108@MLBVDI-LNN-0031:~$ ./Lab0200
Enter the perimeter of the rectangular fence: 3.0
Length of the fence: 0.86 units
Width of the fence: 0.64 units
it23426108@MLBVDI-LNN-0031:~$
```