

P r o g r a m m i n g F u n d a m e n t a l s

Lab 03

Marks 100

Instructions

Work on this lab individually.

You can use your books, notes, handouts etc. but you are not allowed to borrow anything from your peer student.

Objectives

Today's lab will help you to build the understanding of printing statements in C++.

Submission

- Put all the files (*.cpp) of your solution in a zipped folder labeled with your **roll number**.
- Send your lab submission to hassankhan@pucit.edu.pk by **Saturday, May 29, 2021 11:59 PM**.
- The **subject** of the email must be **Lab03** only.

In case of any violation(s), your lab will not be accepted/graded.

What you have to do

Program the following tasks in your DEVCPD and then compile and execute them. The name of your files will be according to the task given in this lab.

Task 1

[20]

Write a program that will print your initials to standard output in letters that are five lines tall. Each big letter should be made up of a bunch of *'s. For example, if your initials were "HA", then the output would look something like:

```

      *      *           *
     *      *         *  *
    *  *  *       *      *
   *      *     *  *  *  *
  *      *   *  *  *  *  *
 *      * *  *      *      *
```

Task 2

[20]

Write down a program that prints an oval. The output would look something like:

```

***
*   *
*   *
*   *
*   *
*   *
*   *
***
```

Task 3

[20]

Write down a program that prints an arrow. The output would look something like:

```

*
***
*****
*
*
*
*
*
*
```

Task 4**[20]**

Write down a program that prints a diamond. The output would look something like:

```
  *
 * *
*   *
*   *
*   *
*   *
*   *
*   *
*   *
*   *
*   *
```

Task 5**[20]**

Write down a program that'll design a cake for our beloved country Pakistan on its Birthday that 14th of August using *, &, % or any other characters.

😊😊😊 **BEST OF LUCK** 😊😊😊
