**LAB – 1**

**Explanation**

**Usage of Newline (\n) and Tab Space (\t) in the Program**

In C, escape sequences like \n and \t are used to format output more effectively.

**Newline (\n):**

* \n is used to move the cursor to a new line. It's useful when you want to print multiple lines of output.

**Tab Space (\t):**

* \t is used to insert a horizontal tab space. It’s helpful for aligning text.

| Question 1 | **How to Open the Editor (Notepad) in Linux and Windows:** |
| --- | --- |
| Output | **Linux:** You can open a text editor like **“nano”** by typing *'nano filename.c'* in the terminal.      **Windows:** You can open **“Notepad”** by typing *'notepad filename.c'* in the command prompt or search bar.  *Command Prompt-*    *Search Bar-* |

| Question 2 | **How to Write a Simple Program:** |
| --- | --- |
| Code | #include <stdio.h>  void main()  {  printf("Welcome to C Programming!");  } |

| Question 3 | **How to Compile it and Run the Program:** |
| --- | --- |
| Flow Chart |  |
| Output | In **Linux**, compile the program with **gcc** using *'gcc filename.c -o output'*. Then, run the program by typing *'./output'*.    In **Windows**, use a C compiler like **MinGW**, and compile with *'gcc filename.c -o output.exe'*, then run *'./output.exe'*. |
| Your Observation | The “gcc” compiler successfully compiled the program with the command “gcc simple\_program.c” and we got the output using the command “./a”. |

| Question 4 | **Writing a simple message display program:** |
| --- | --- |
| Flow Chart |  |
| Code | #include <stdio.h>  void main()  {  printf("Hello, Welcome to Programming! I hope you have a bright future ahead.");  } |
| Output |  |
| Your Observation | The program successfully displayed the given message. |

| Question 5 | **Usage of newline \n and tab space \t in the program:** |
| --- | --- |
| Flow Chart |  |
| Code | #include <stdio.h>  void main()  {  printf("Hello,\n\tWelcome to C Programming!\n");  } |
| Output |  |
| Your Observation | The program successfully displayed the given message. |

| Question 6 | **Displaying the student's details (name, roll number, address, future ideas) in a good manner using print, \t, and \n:** |
| --- | --- |
| Flow Chart |  |
| Code | #include <stdio.h>  void main()  {  printf("\nName:\t\tRajveer Chaudhari\n\nStudnet ID:\t202411024\n\nAddress:\t1484/3\n\t\tNasirabad, Ajmer,\n\t\tRajasthan\n\nFuture Ideas:\tBecome a Software Developer.\n\n");  } |
| Output |  |
| Your Observation | The program successfully display the values given to it and it also used the \n and \t in a well mannered way. |