**Before Lab Final**

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| WEEK | Topic | Important |
| 1 | **-Constants, Variables and Data Types**  **-Operators and Expressions**  **-Managing Input and Output Operations** |  |
| 2 | **-Decision Making and Branching (if-else and Switch Case)** |  |
| 3 | **-Decision Making and Looping (for loop)** |  |
| 4 | **-Decision Making and Looping (do-while loop)** |  |
| 5 | **-Array** |  |
| 6 | **-Character Arrays and Strings** |  |
| 7 | **-User-Defined Functions** |  |
| 8 | **-Structures and Unions** |  |
| 9 | **-Pointers and File Management in C** |  |
| 10 | **-Basic C++ Class** |  |
| 11 | **-C++ Constructor and Destructor and Polymorphism** |  |

**WEEK-1**

**OBJECTIVE:**

**-Constants, Variables and Data Types**

**-Operators and Expressions**

**-Managing Input and Output Operations**

**Average:**

#include<stdio.h>

#define N 10

int main()

{

    int count;

    float sum, average, number;

    sum=0;

    count=0;

    printf("Enter %d Number: ",N);

    while(count<N)

    {

        scanf("%f", &number);

        sum=sum + number;

        count=count+1;

    }

    average=sum/N;

    printf("N=%d sum=%f count=%d",N,sum,count);

    printf("\nAverage=%f",average);

    return 0;

}

**SUM of the 1/i :**

#include<stdio.h>

int main()

{

    float sum;

    int n;

    sum=0;

    for(n=1;n<=10;++n)

    {

        sum=sum+1/(float)n;

        printf("%2d %6.4f \n",n,sum);

    }

    return 0;

}

**#From String Remove White Space**

1. #include <stdio.h>
3. int main()
4. {
5. char text[100], blank[100];
6. int c = 0, d = 0;
8. printf("Enter some text\n");
9. gets(text);
11. while (text[c] != '\0')
12. {
13. if (!(text[c] == ' ')) {
14. blank[d] = text[c];
15. d++;
16. }
17. c++;
18. }
20. blank[d] = '\0';
22. printf("Text after removing blanks\n%s\n", blank);
24. return 0;
25. }