

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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OS-Lab-2 by Vivek Dubey



COMPUTER SCIENCE AND ENGINEERING

CS403PC

**COMPUTER SCIENCE AND ENGINEERING
(ARTIFICIAL INTELLIGENCE AND
MACHINE LEARNING)**

CS403PC

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Scheme of Operating System

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S. No.	Course Code	Course Title	L	T	P	Credits
3	CS403PC	Operating Systems	3	0	0	3
6	CS406PC	Operating Systems Lab	0	0	3	1.5

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WAP to display Welcome.

```
Exp1_Welcome.c x
#include<stdio.h>
void main()
{
    printf("Welcome");
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ls
Exp1_Welcome.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp1_Welcome.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ls
a.out  Exp1_Welcome.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
Welcomelab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

WAP to display an Integer, a float, a char, a string

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```
Exp1_Welcome.c x Exp2_Display_Data.c
//WAP to display
//an integer 100,
//a float 3.14,
//a char M
//a string Hello World
#include<stdio.h>
void main()
{
    printf("%d\n", 100);
    printf("%f\n", 3.14);
    printf("%c\n", 'M');
    printf("Hello World\n");
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp2_Display_Data.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
100
3.140000
M
Hello World
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

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WAP to read and write an integer and a float.

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```
//an integer,a float no
#include<stdio.h>
void main()
{
    int IntNo;float FloNo;
    char Chasymbol;char String[10];
    printf("Enter IntNo:");
    scanf("%d",&IntNo);printf("%d\n",IntNo);
    printf("Enter FloNo:");
    scanf("%f",&FloNo);printf("%f\n",FloNo);
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp3_ReadWrite_Data.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
Enter IntNo:10
10
Enter FloNo:3.14
3.140000
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

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WAP to read and write a char and a string

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```
//WAP to read and write
//a Char and a String
#include<stdio.h>
void main()
{
    char ChaSymbol, String[10];
    char Chasymbol;char String1[10];
    printf("Enter ChaSymbol:");
    scanf("%c",&ChaSymbol);printf("%c\n",ChaSymbol);
    printf("Enter String:");
    scanf("%s",String1);printf("%s\n",String1);
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp4_ReadWrite_Data.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
Enter ChaSymbol:M
M
Enter String:Welcome
Welcome
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

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WAP to solve $c=a+b$.

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```
//WAP to solve c=a+b
#include<stdio.h>
void main()
{
    int a,b,c;
    printf("Enter a:");scanf("%d",&a);
    printf("Enter b:");scanf("%d",&b);
    c=a+b;
    printf("c=%d\n",c);
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp5_Add2Nos.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
Enter a:10
Enter b:20
c=30
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

WAP to check N for even and odd number.

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```
//WAP to solve check for even and odd
#include<stdio.h>
void main()
{
    int N;
    printf("Enter N:");scanf("%d",&N);
    if(N == 0) printf("%d is Zero No\n",N);
    if(N%2==0) printf("%d is Even No\n",N);
    if(N%2!=0) printf("%d is Odd No\n",N);
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp6_EvenOddNo.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
Enter N:10
10 is Even No
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

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WAP to find biggest number in A,B and C.

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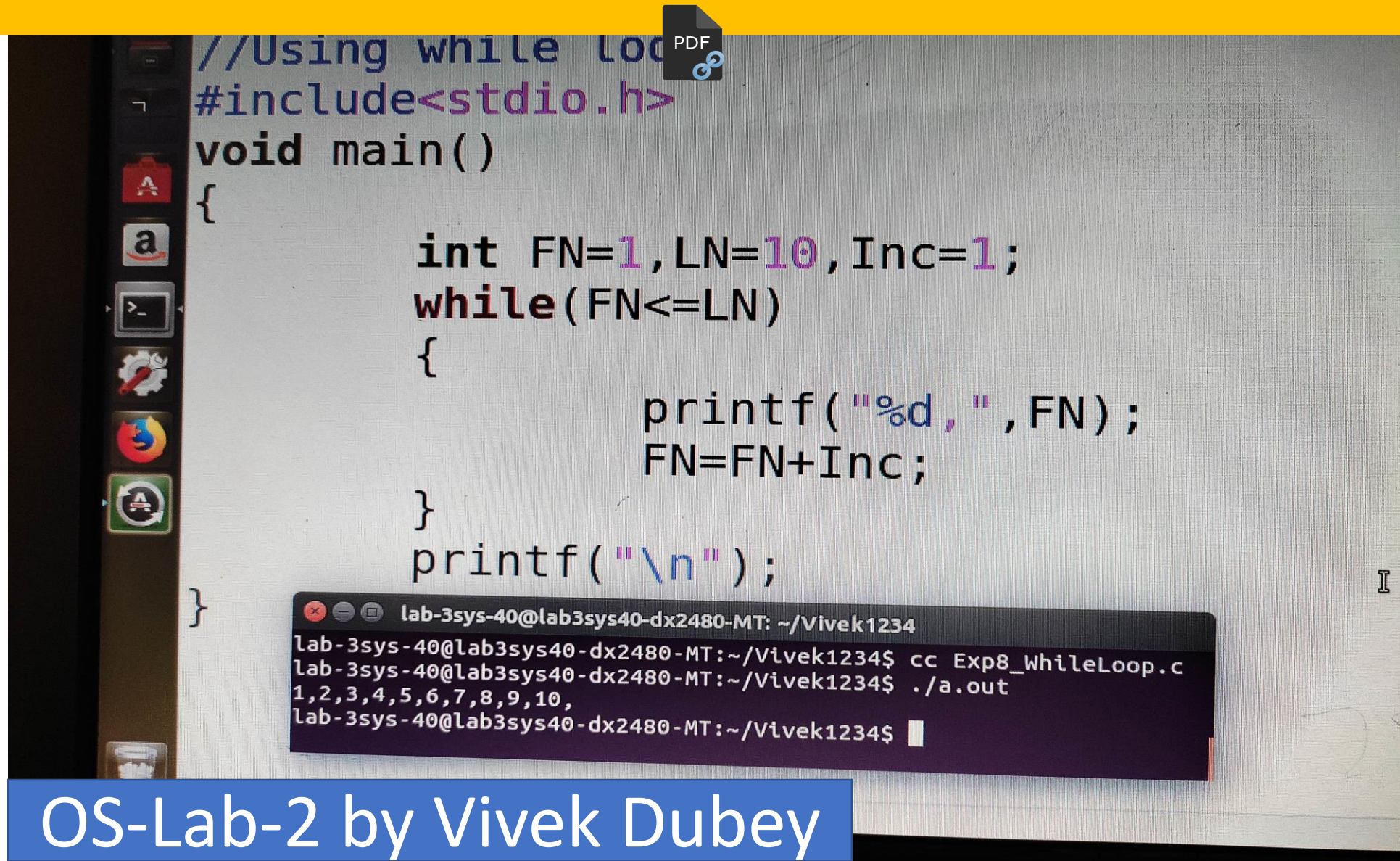
```
Exp7_BiggestNo.c x Exp6_EvenOddNo.c x
//WAP to find biggest number in A,B and C.
#include<stdio.h>
void main()
{
    int A=10,B=20,C=30;
    if(A>B)
        if(A>C)
            printf("A=%d is Biggest\n",A);
        else
            printf("C=%d is Biggest\n",C);
    else if (B>C)
        printf("B=%d is Biggest\n",B);
    else
        printf("C=%d is Biggest\n",C);
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp7_BiggestNo.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
C=30 is Biggest
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

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WAP to display 1,2,3,4,5,6,7,8,9,10 using while loop

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The image shows a C program being edited in a text editor and its execution in a terminal. The program uses a while loop to print numbers from 1 to 10. The terminal output shows the successful compilation and execution of the program, displaying the sequence of numbers 1 through 10.

```
//Using while loop
#include<stdio.h>
void main()
{
    int FN=1, LN=10, Inc=1;
    while(FN<=LN)
    {
        printf("%d, ", FN);
        FN=FN+Inc;
    }
    printf("\n");
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp8_WhileLoop.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
1,2,3,4,5,6,7,8,9,10,
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

OS-Lab-2 by Vivek Dubey

WAP to display 1,2,3,4,5,6,7,8,9,10 using do-while loop

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```
#include<stdio.h>
void main()
{
    int FN=1, LN=10, Inc=1;
    do
    {
        printf("%d, ", FN);
        FN=FN+Inc;
    }while(FN<=LN);
    printf("\n");
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp9_DoWhileLoop.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
1,2,3,4,5,6,7,8,9,10,
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

WAP to display 1,2,3,4,5,6,7,8,9,10 using for loop

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```
//Using for loop
#include<stdio.h>
void main()
```

```
{
```

```
    int FN=1, LN=10, Inc=1;
```

```
    for(FN; FN<=LN; FN++)
```

```
        printf("%d, ", FN);
```

```
    printf("\n");
```

```
}
```

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```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp10_ForLoop.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
1,2,3,4,5,6,7,8,9,10,
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```

WAP to read and write any 10 numbers using arrays.

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```
//Using Array
#include<stdio.h>
void main()
{
    int count,Numbers[10];
    for(count=0;count<10;count++)
        scanf("%d",&Numbers[count]);
    for(count=0;count<10;count++)
        printf("%d,",Numbers[count]);
    printf("\n");
}
```

```
lab-3sys-40@lab3sys40-dx2480-MT: ~/Vivek1234
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ cc Exp11_ArrayReadWrite.c
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$ ./a.out
1 2 3 4 5 6 7 8 9 10
1,2,3,4,5,6,7,8,9,10,
lab-3sys-40@lab3sys40-dx2480-MT:~/Vivek1234$
```