

CSE115L – Computing Concepts Lab

Lab 04

if statement:

```
#include<stdio.h>
int main()
{
    if(1)
        printf("The statement is true");
    return 0;
}
```

```
#include<stdio.h>
int main()
{
    if(0)
        printf("The statement is true");
    return 0;
}
```

if else statement:

```
#include<stdio.h>
int main()
{
    int i=5,j=4;
    if(i>j)
        printf("I is Greater than J");
    else
        printf("J is Greater than I ");

    return 0;
}
```

```
#include<stdio.h>
int main()
{
    int i=2,j=4;
    if(i>j)
        printf("I is Greater than J");
    else
        printf("J is Greater than I ");

    return 0;
}
```

if - else if - else statement:

```
#include<stdio.h>
int main()
{
    int num;
    printf("Enter a Number:");
    scanf("%d",&num);

    if(num>=90)
        printf("Grade is A");
    else if(num>=80 && num<90)
        printf("Grade is B");
    else if(num>=70 && num<80)
        printf("Grade is C");
    else
        printf("Fail");

    return 0;
}
```

```
#include<stdio.h>
int main()
{
    char c;
    printf("Enter a Character:");
    scanf("%c",&c);

    if(c=='A' || c=='a')
        printf("You pressed with A");
    else if(c=='B' || c=='b')
        printf("You pressed with B");
    else if(c=='C' || c=='c')
        printf("You pressed with C");
    else
        printf("You pressed a different key");
    return 0;
}
```

Nested if else statement:

```
#include<stdio.h>

int main()
{
    int i;
    printf("Enter a Number:");
    scanf("%d",&i);

    if(i>0)
    {
        if(i<5)
        {
            printf("Greater than 0, less than 5");
        }
        else
        {
            printf("Greater than 5");
        }
    }

    return 0;
}
```

```
#include<stdio.h>
int main()
{
    int i,j=3;
    printf("Enter a Number:");
    scanf("%d",&i);

    if(i>0)
    {
        if(i<j)
        {
            printf("Greater than 0, less than J");
        }
        else
        {
            printf("Greater than J");
        }
    }
    else
    {
        printf("Less than 0");
    }
    return 0;
}
```

Problems:

1. A number x is **positive** if it is greater than 0 and is **negative** if it is less than 0. Write a C program that takes an integer as input and tests if it is positive or negative.

Sample Output 1:

```
Enter a number: 19
19 is positive
```

Sample Output 2:

```
Enter a number: -5
-5 is negative
```

2. Write a C program that takes an integer as an input and determines whether it is a multiple of 7 or not.

Sample Output 1:

```
Enter a number: 5
5 is not a multiple of 7
```

Sample Output 2:

```
Enter a number: 49
49 is a multiple of 7
```

3. Write a program to check a number whether it's even or odd.

Sample Output 1:

```
Enter a number: 7
7 is odd
```

Sample Output 2:

```
Enter a number: 12
12 is even
```