

FACULTY OF ENGINEERING AND TECHNOLOGY  
UNIVERSITY OF LUCKNOW  
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Computer System and Programming in 'C'  
CS-101/201

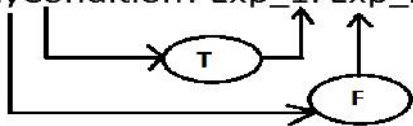
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## DECISION CONTROL STATEMENTS

### 1. Conditional Expression Operator

Syntax-

`v = AnyCondition? Exp_1: Exp_2;`



```
int main()
{
    int a,b,v;
    printf("Please enter values of a and b\n");
    scanf("%d%d",&a,&b);
    v= a>b?a:b;
    printf("v=%d",v);
    return 0;
}
```

### 2. if Statement

Syntax-

`if(AnyCondition)`

{

Statement 1;

-----

Statement n;

}

```
int main()
{
    int a,b;
    printf("Please enter values of a and b\n");
    scanf("%d%d",&a,&b);
    if(a==b)
    {
        printf("Given numbers are equal\n");
    }
    printf("Anything else Sir! \n");
    return 0;
}
```

### 3. if-else Statement

Syntax-

```
if(AnyCondition)
{
Statement Block 1;
}
else
{
Statement Block 2;
}
```

```
int main()
{
    int num;
    printf("Please enter values of num\n");
    scanf("%d",&num);
    if(num%2==0)
    {
        printf("%d is an even number\n",num);
    }
    else
    {
        printf("%d is an odd number\n",num);
    }
    printf("Anything else, Sir! \n");
    return 0;
}
```

### 4. Nested if-else Statement

Syntax-

```
if(Condition1)
{
Statement 1;
}
else
{
    if(Condition2)
    {
        Statement 2;
    }
    else
    {
        Statement 3;
    }
}
```

```
int main()
{
    int a,b,c;
    printf("Please enter values of a,b, and c ");
    scanf("%d%d%d",&a,&b,&c);
    if(a>b && a>c)
    {
        printf("a is greatest");
    }
    else
    {
        if(b>c)
        {
            printf("b is greatest");
        }
        else
        {
            printf("c is greatest");
        }
    }
    return 0;
}
```

```
int main()
{
    int percent;
    printf("Please enter your percentage\n");
    scanf("%d",&percent);
    if(percent>=60)
        printf("First Division");
    else if(percent>=50)
        printf("Second Division");
    else if(percent>=40)
        printf("Third Division");
    else
        printf("Fail");
}
```

Thank You.



**BTQ**

*BTQ: Brain Teaser Question*

*Take a good look at your hands. You have 10 fingers on your hands. How many fingers are there on 10 hands?*

