if condition start

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conditional statement

relational operation

/* >, >=, <, <=, ==, !=

↓ not equal.

if .... else

(even or odd)

```
{
  int a;
  printf("Enter value = ");
  Scanf("%d",&a);
 if(a%2==0){
    Printf("Even",a);
}
  if(a%2!=0){
printf("Odd");
}
}
```

Again:

```
{
  int a;
  printf ("Enter a Value=");
  Scanf ("%d", &a);
  if (a%2==0) {
  printf ("Even\n");
  }
  else {
    printf("Odd\n");
  }
}
```

Part 2

```
{ int tim=10
  if (time==10) {
    printf ("Good morning");
  }
  else {
  printf("not good morning");
}
```

output → Good morning

আরেক ভাবে

```
{
  int a, b;
  printf ("Enter two number =.");
  scanf ("%d %d", &a, &b);

  if (a>b){
    printf("the large number is = %d", a);
  }
else if (b>a)
  {
    printf("The large number is = %d", b);

  else {
    printf (The number is equal");
  }
```

different ways of large numbe check

large = (a>b)? a : b; → condition.

printf(" Large number is = %d\n", large);

if .... else # grade sheet MATADOR PAGE NO.: DATE: / /

```
// Grade sheet make

{
 float a;
printf("Enter ~~the~~ your number = ");
Scanf("%f", &a);
if(a>=80){
      printf("A+");
}
 else if(a>=70){
      printf("A");
}
 else if(a>=60){
      printf("B");
}
 else if(a>=50){
      printf("C");
 }
 else if(a>=~~40~~ 33){
      printf("D");
 }
  else{
      printf("F");
}
}
```

Output

A+ = 80
A = 70
B = 60
C = 50
D = ~~40~~ 33
F = 0 to 32

negative, positive or zero

```
{
  int a;
  printf("Enter the number = ");
    scanf("%d", &a);
  if(a>0){
     printf("The number is positive");
}
  else if(a<0){
     printf("The number is negative");
}
  else{
     printf("The number is zero");
}
}
```

Vowel check

```
{
 char  x;
 printf("Enter the a  letter = ");
 scanf("%c", &x);
 if(x=='a'){ printf(" vowel");}
 else if(x=='e'){ printf(" vowel");}
 else if(x=='i'){ printf(" vowel");}
 else if(x=='o'){ printf("vowel");}
 else if(x=='u'){ printf("vowel");}
 else{ printf(" consonant");}
}
```

#

```
{
  int a,b,c;
 printf("Enter three numbers = ");
 scanf("%d %d %d", &a, &b, &c);
 if(a>b && a>c){ printf("The large number is = a");}
else if(b>a && b>c){ printf("The large number is = b");}
else{ printf("The large number is = c");}
```

check leap year

```
{
 int year;
 printf ("Enter any year:");
 scanf ("%d",&year);
 if( year%400==0){
   printf(" leap year");
 }
   else if( year%4==0 && year%100!=0){
   printf(" Leap year");
}
 else{
   printf(" not leap year");}}
```

~~# leplier check~~

```
}
```

letter check capital or small

```
{
  char ch;
  printf("Enter any letter = ");
  scanf("%c", &ch);
  if (ch>='a' && ch<='z')
  { printf(" small letter"); }
  else if (ch>='A' && ch<='Z')
  { printf(" capital letter"); }
  else { printf(" Not a letter"); }
}
```

pass or fail check

```
{
  int mark;
  print(" Enter Marks = ");
  Scanf("%d", &mark);
  if(mark >= 33)
  { printf(" pass"); }
  else { printf(" Fail"); }
}
```

local and Global variable.

Local

```
# include<stdio.h>
  int main() {
  int a=10;
  printf(" Inside the main a=%d\n", a);
}
  void display () {
     printf(" Inside the ~~main~~ display a=%d\n", a);}
```

↓ error

Gobal

```
# include<stdio.h>
  int a=10;
  int main() {
  printf(" Inside the main a=%d\n", a);
   display ();
}
  Void display () {
  printf(" Inside the display a=%d\n", a);
}
```