**Math.h -** All the functions available in this library take **double** as an argument and return **double** as the result.

**It I is not compulsory to use double.**

**1. double ceil(double x)**: The C library function double ceil(double x) returns the smallest integer value greater than or equal to x.

syntax : double ceil(double x)

**2. double floor(double x):**The C library function double floor(double x) returns the largest integer value less than or equal to x.

syntax : double floor(double x)

**3. double fabs(double x)**: The C library function double fabs(double x) returns the absolute value of x.

syntax : double fabs(double x)

**4. double log(double x)**: The C library function double log(double x) returns the natural logarithm (base-e logarithm) of x.

syntax : double log(double x)

**5. double log10(double x)**: The C library function double log10(double x) returns the common logarithm (base-10 logarithm) of x.

syntax : double log10(double x)

**6. double fmod(double x, double y)**: The C library function double fmod(double x, double y) returns the remainder of x divided by y.

syntax : double fmod(double x, double y)

**7. double sqrt(double x)**: The C library function double sqrt(double x) returns the square root of x.

syntax : double sqrt(double x)

**8. double pow(double x, double y)**: The C library function double pow(double x, double y) returns x raised to the power of y i.e. xy.

syntax : double pow(double x, double y)

**9. double modf(double x, double \*integer)**: The C library function double modf(double x, double \*integer) returns the fraction component (part after the decimal), and sets integer to the integer component.

syntax : double modf(double x, double \*integer)

**10. double exp(double x)**: The C library function double exp(double x) returns the value of e raised to the xth power.

syntax : double exp(double x)

**11. double cos(double x)**: The C library function double cos(double x) returns the cosine of a radian angle x.

syntax : double cos(double x)

**12. double acos(double x) :** The C library function double acos(double x) returns the arc cosine of x in radians.

syntax : double acos(double x)

**13. double tanh(double x):**The C library function double tanh(double x) returns the hyperbolic tangent of x.

syntax : double tanh(double x)