My Project

project.h File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
```

Go to the source code of this file.

Macros

#define	**pi** 3.141592653589793

Functions

float	**mean** (float arr[], int n) Calculates mean, takes array and length as input. More...
float	**median** (float arr[], int n) Calculates median, takes array and length as input. More...
float	**mode** (float arr[], int n) Calculates mode, takes array and length as input. More...
int	**comp** (const void *a, const void *b)
float	**ellipse** (float a, float b) Calculates area of ellipse takes axis a ,b as inputs. More...
float	**trapezoid** (float a, float b, float h) Calculator area of trapezoid, takes 2 parallel sides and height as input. More...
float	**sphere_vol** (float radius) Calculates volume of sphere, takes radius as input. More...
float	**sphere_area** (float radius) calculates volume of sphere, takes radius as input More...
float	**cone_vol** (float radius, float height) Calculates volume of cone, takes radius as input. More...
float	**cone_area** (float radius, float height) Calculates the area of cone, takes radius and height as input. More...
float	**cylinder_vol** (float radius, float height) Calculates volume of cylinder, takes radius and height as inputs. More...
float	**cylinder_area** (float radius, float height)

	calculates cylinder area, takes radius and height as inputs More...
float	**a3_b3** (float a, float b) Calculates (a+b)^3, takes a and b as inputs. More...
float	**S_a3_b3** (float a, float b) Calculates (a-b)^3, takes a and b as inputs. More...
float	**a4_b4** (float a, float b) Calculates (a+b)^4, takes a and b as inputs. More...
float	**a5_b5** (float a, float b) Calculates (a+b)^5, takes a and b as inputs. More...

Detailed Description

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Version

0.1

Date

2022-02-09

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Function Documentation

◆ a3_b3()

```
float a3_b3 ( float  a,
              float  b
            )
```

Calculates (a+b)^3, takes a and b as inputs.

Parameters

a

b

Returns

float

◆ a4_b4()

```
float a4_b4 ( float  a,
              float  b
            )
```

Calculates (a+b)^4, takes a and b as inputs.

Parameters

a

b

Returns

float

◆ a5_b5()

```
float a5_b5 ( float  a,
              float  b
            )
```

Calculates (a+b)^5, takes a and b as inputs.

Parameters

a

b

Returns

float

◆ cone_area()

```
float cone_area ( float  radius,
                  float  height
                )
```

Calculates the area of cone, takes radius and height as input.

Parameters

radius

height

Returns

float

◆ cone_vol()

```
float cone_vol ( float  radius,
                 float  height
               )
```

Calculates volume of cone, takes radius as input.

Parameters

radius

height

Returns

float

◆ cylinder_area()

```
float cylinder_area ( float  radius,
                      float  height
                    )
```

calculates cylinder area, takes radius and height as inputs

Parameters

radius

height

Returns

float

◆ cylinder_vol()

```
float cylinder_vol ( float  radius,
                     float  height
                   )
```

Calculates volume of cylinder, takes radius and height as inputs.

Parameters

radius

height

Returns

float

◆ ellipse()

```
float ellipse ( float  a,
                float  b
              )
```

Calculates area of ellipse takes axis a ,b as inputs.

Parameters

a

b

Returns

float

◆ mean()

```
float mean ( float  arr[],
             int    n
           )
```

Calculates mean, takes array and length as input.

Parameters

arr

n

Returns

float

◆ median()

```
float median ( float  arr[],
               int    n
```

```
)
```

Calculates median, takes array and length as input.

Parameters

arr

n

Returns

float

◆ mode()

```
float mode ( float  arr[],
             int    n
           )
```

Calculates mode, takes array and length as input.

Parameters

arr

n

Returns

float

◆ S_a3_b3()

```
float S_a3_b3 ( float  a,
                float  b
              )
```

Calculates (a-b)^3, takes a and b as inputs.

Parameters

a

b

Returns

float

◆ sphere_area()

float sphere_area (float radius)

calculates volume of sphere, takes radius as input

Parameters

radius

Returns

float

◆ sphere_vol()

float sphere_vol (float radius)

Calculates volume of sphere, takes radius as input.

Parameters

radius

Returns

float

◆ trapezoid()

float trapezoid (float a,
float b,
float h
)

Calculator area of trapezoid, takes 2 parallel sides and height as input.

Parameters

a

b

h

Returns

float