FUNCTIONS

#include<stdio.h>

#include<string.h>

#include<iostream.h>

#include<math.h>

#include<time.h>

using namespace std;

int main()

{

char leftsstr[]="gfg";

char rightstr[]="gfg";

int res=strcmp(left str,right str);

if (res==0)

printf("strings are equal");

else

printf("strings are unequal");

printf("\n value returned by strcmp() is:%d",res);

}

{

char str1[]="Hello Geeks!";

char str2[] = "GeeksforGeeks";

char str3[40];

char str4[40];

char str5[] = "GfG";

strcpy(str2, str1);

strcpy(str3, "Copy successful");

strcpy(str4, str5);

printf ("str1: %s\nstr2: %s\nstr3: %s\nstr4: %s\n", str1, str2, str3, str4);

}

{

char str[50]="geeksforgeeks";

printf("the given string is =%\n",str);

printf("after reversing string is=%s",strrev(str));

}

{

char ch[]={'g','e','e','f','s',\0'};

printf("length of string is :%d",strlen(str));

}

{

char str[]="GEEKFORGEEK IS THE BEST";

printf("%s\n",strwr(str));

printf("\n string after converting to the lowercase is: %s",strlwr(str));

}

{

char str[]="geekforgeek is the best");

printf("%s\n",strupr(str));

printf("\n string after converting to the uppercase is: %s",strupr(str));

}

class gfg

{

public:

int power(int x, unsigned int y)

{

if (y == 0)

return 1;

else if (y % 2 == 0)

return power(x, y / 2) \* power(x, y / 2);

else

return x \* power(x, y / 2) \* power(x, y / 2);

}

};

{

gfg g;

int x = 2;

unsigned int y = 3;

cout << g.power(x, y);

}

double findSQRT(double N)

{

return sqrt(N);

}

{

int N = 12;

printf("%f ", findSQRT(N));

}

{

cout << "Floor is : " << floor(2.3) << endl;

cout << "Floor is : " << floor(-2.3) << endl;

cout << " Ceil is : " << ceil(2.3) << endl;

cout << " Ceil is : " << ceil(-2.3) << endl;

{

cout<<"Random numbers generated between 0 and 1:"<<endl;

srand( (unsigned)time( NULL ) );

for (int i = 0; i < 5; i++)

{

cout << (float) rand()/RAND\_MAX << endl;

}

}

OUTPUT:

Strings are equal

Value returned by strcmp() is: 0

str1: Hello Geeks!

str2: Hello Geeks!

str3: copy successful

str4: GfG

the given string is=geekforgeeks

after reversing string is=skeegrofkeeg

length of a string is 5

geeksforgeeks is the best

GEEKSFOEGEEKS IS THE BEST

Power is 8

Square is 3.464102

Floor is 2

Floor is -3

Cell is 3

Cell is -2

Rand numbers generated between 0 and1 is

0.573734

0.88082

0.690898

0.743

0.386844