```c
#include<stdio.h>
#include<string.h>
#include<math.h>
#include<stdlib.h>
int main()
{
    char ch1[100],ch2[100];
    printf("enter 1st string");
    scanf("%s",&ch1);
    printf("enter 2nd string");
    scanf("%s",&ch2);
    printf("comparing:%d\n",strcmp(ch1,ch2));
    printf("string uppercase:%s\n",strupr(ch1));
    printf("string lowercase:%s\n",strlwr(ch1));
    printf("string rev:%s\n",strrev(ch1));
    int len1=strlen(ch1);
    int len2=strlen(ch2);
    printf("length of 1st string is %d\n",len1);
    printf("length of 2nd string is %d\n",len2);
    strcpy(ch1,ch2);
    printf("after copying ch1=%s and ch2=%s\n",ch1,ch2);
    int p=pow(2,3);
    printf("2 power 3 is %d\n",p);
    int t=sqrt(4);
    printf("square root of 4=%d\n",t);
    int y=ceil(3.2455);
    printf("ceil of 3.2455 is %d\n",y);
    int u=floor(3.2455);
    printf("floor of 3.2455 is %d\n",u);
    printf("random number:%d",rand());
    return 0;
}
```