making project directory

```
┌──(sahilkhan㉿kali)-[~/Desktop]
└─$ mkdir project

┌──(sahilkhan㉿kali)-[~/Desktop]
└─$ ls
```

changing to project directory
in that project directory we will be
having two .c file
1. code.c
2. rawtotxt.c

```
┌──(sahilkhan㉿ kali)-[~/Desktop]
└─$ cd project

┌──(sahilkhan㉿ kali)-[~/Desktop/project]
└─$ ls
code.c  rawtotxt.c

┌──(sahilkhan㉿ kali)-[~/Desktop/project]
└─$
```

running code.c file after code execution we will be having output.raw file

```
┌─(sahilkhan▪ kali)-[~/Desktop/project]
└─$ gcc gcc code.c -o code -lportaudio
```

Converting output.raw to output.txt using rawtotxt.c

```
┌──(sahilkhan▪kali)-[~/Desktop/project]
└─$ gcc gcc rawtotxt.c

┌──(sahilkhan▪kali)-[~/Desktop/project]
└─$ ls
a.out   code   code.c   output.raw   rawtotxt.c

┌──(sahilkhan▪kali)-[~/Desktop/project]
└─$ ./a.out > output.txt

┌──(sahilkhan▪kali)-[~/Desktop/project]
└─$
```

Using gnuplot to plot the graph from output.txt

```
┌─(sahilkhan■ kali)-[~/Desktop/project]
└─$ ls
a.out   code   code.c   output.rau   output.txt   rawtotxt.c

┌─(sahilkhan■ kali)-[~/Desktop/project]
└─$ gnuplot

        G N U P L O T
        Version 5.4 patchlevel 4     last modified 2022-07-10

        Copyright (C) 1986-1993, 1998, 2004, 2007-2022
        Thomas Williams, Colin Kelley and many others

        gnuplot home:      http://www.gnuplot.info
        faq, bugs, etc:    type "help FAQ"
        immediate help:    type "help"  (plot window: hit 'h')

Terminal type is now 'qt'
gnuplot> set terminal png

Terminal type is now 'png'
Options are 'nocrop enhanced size 640,480 font "arial,12.0" '
gnuplot> set output 'audio2.png'
gnuplot> plot 'output.txt' using 1:2 with lines title 'audio2'
```

After plotting the graph from gnuplot we will be having output as audio2.png

```
┌──(sahilkhan㉿kali)-[~/Desktop/project]
└─$ ls
a.out   code   code.c   output.raw   output.txt   rawtotxt.c

┌──(sahilkhan㉿kali)-[~/Desktop/project]
└─$ gnuplot

┌──(sahilkhan㉿kali)-[~/Desktop/project]
└─$ ls
a.out   audio2.png   code   code.c   output.raw   output.txt   rawtotxt.c
```