

Doxygen

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My Project

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File List

Here is a list of all files with brief descriptions:

area.c

main.c

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area.c File Reference

Macros | Functions

#include <stdio.h>

Include dependency graph for area.c:

Macros

#define PI 3.1415

Mathematical constant PI. More...

#define RADIUS_M 7.82

Radius in meters. More...

Functions

float calculate_area (float radius)

float calculate_perimeter (float radius)

int main ()

Macro Definition Documentation

Doxygen GUI frontend +

File

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Step 1: Specify the working directory from which doxygen will run

/home/vanshit/internship/git/vanshit_kamdar_idp/Doxygen

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Step 2: Configure doxygen using the Wizard and/or Expert tab, then switch to the Run tab to generate the documentation

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My Project

Project synopsis:

Project version or id:

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Specify the directory to scan for source code

Source code directory:

ship/git/vanshit_kamdar_idp/Doxygen

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Destination directory:

ship/git/vanshit_kamdar_idp/Doxygen

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Function Documentation

◆ calculate_area()

float calculate_area (float **radius**)

Calculates the Area of the circle. Formula: $\text{Area} = \pi r^2$

Parameters

[in] **radius**

[out] **area**

◆ calculate_perimeter()

float calculate_perimeter (float **radius**)

Calculates the Perimeter of the circle. Formula: $\text{Perimeter} = 2\pi r$

Parameters

[in] **radius**

[out] **perimeter**

FunctionsandProgramStructure

Q1)

Write the function strindex(s,t) which returns the position of the rightmost occurrence of t in s, or -1 if there is none.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise1$ cd out
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise1/out$ ls
main
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise1/out$ ./main
Found: 6
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise1/out$
```

Q2)

Extend atof to handle scientific notation of the form

123.45e-6

where a floating-point number may be followed by e or E and an optionally signed exponent.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise2/out$ ./main
Enter string:
123.45e-6
Length = 9
Floating-point value = 0.000123vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise2/out$
```

Q3)

Given the basic framework, it's straightforward to extend the calculator. Add the modulus (%) operator and provisions for negative Numbers.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise3/out$ ./main
10 20 30 -5 -2 +
-7
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise3/out$ ./main
200 10 %
0
100 0.0 %
erro:zero divisor
100
```

Q4)

Add access to library functions like sin, exp, and pow.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise4/out$ ./main
Value 2 ^ 3 = 8.000000
exponential value = 162754.791419
The cosine of 60.000000 is 0.500000 degrees
The sine of 60.000000 is 0.866025 degrees
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise4/out$
```

Q5)

Add the commands to print the top elements of the stack without popping, to duplicate it, and to swap the top two elements. Add a command to clear the stack.

```
10 20 30 40 50 ?
topmost=50.000000
secondmost=40.000000
```

```
100 120 130 140 d
topmost=140.000000second topmost=140.000000
```

```
150 160 170 190 s
top=190.000000 and second=170.000000
new topmost=170.000000
new secondmost=190.000000      170
```

```
c
stack cleared
error: stack empty
```

Q6)

Write a routine ungets(s) that will push back an entire string onto the input. Should ungets know about buf and bufp, or should it just use ungetch?

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise6/out$ ./main
enter string:
hello world

Characters retrieved from the buffer:
dlrow olleh
```

Q7)

Adapt the ideas of printf to write a recursive version of itoa; that is, convert an integer into a string by calling a recursive routine.

```
vanshit@66JC9F2-Desk:~/in
123vanshit@66JC9F2-Desk:~
```

Q8)

Write a recursive version of the function reverse(s), which reverses the string s in place.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise8/out$ ./main
Original string: Hello, world!
Reversed string: !dlrow ,olleH
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionsandProgramStructure/Exercise8/out$
```

Q9)

Q9) Suppose that there will never be more than one character of pushback. Modify `getch` and `ungetch` accordingly.

```
vrk@vrk-VirtualBox:~/testingpurpose$ ./obj
Enter character: h
h
No space left for ungetch
vrk@vrk-VirtualBox:~/testingpurpose$ ./obj
Enter character: hello
h
No space left for ungetch
vrk@vrk-VirtualBox:~/testingpurpose$
```

Q10)

Our `getch` and `ungetch` do not handle a pushed-back EOF correctly. Decide what their properties ought to be if an EOF is pushed back, then implement your design.

```
vrk@vrk-VirtualBox:~/testingpurpose$ ./obj
Enter a string: hello
EOF added
String in the buffer: olleh
```

Q11)

An alternate organization uses `getline` to read an entire input line; this makes `getch` and `ungetch` unnecessary. Revise the calculator to use this approach.

```
vrk@vrk-VirtualBox:~/testingpurpose$ ./obj
11 12 14 15 18 20 + ?
topmost=38.000000
secondmost=15.000000
```

Q12)

Modify `getop` so that it doesn't need to use `ungetch`.

```
vrk@vrk-VirtualBox:~/te  
12 13 14 5 6 7 * ?  
topmost=42.000000  
secondmost=5.000000
```

Q13)

Define a macro swap(t,x,y) that interchanges two arguments of type t.

```
Before swap: a = 11, b = 10  
After swap: a = 10, b = 11
```

BasicPointersandArray

Q1)

As written, getint treats a + or - not followed by a digit as a valid representation of zero. Fix it to push such a character back on the input.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandArray/Exercise1/out$ ./main
12
+45
-35
6
9
12 45 -35 6 9 vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandArray/Exercise1/out$
```

Q2)

Write getfloat, the floating-point analog of getint. What type does getfloat return as its function value?

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise2/out$ ./main
3.14
3.140000 vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise2/out$
```

Q3)

Write a pointer version of the function strcat that we showed in Chapter 2: strcat(s,t) copies the string t to the end of s. ?

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise3$ make all
gcc app.c -o main
mv main ./out
gcc app.c -c
mv *.o ./build
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise3$ cd out
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise3/out$ ls
main
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise3/out$ ./main
Concatenated String: helloworld ok
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise3/out$
```

Q4)

Write versions of the library functions strncpy, strncat, and strncmp, which operate on at most the first n characters of their argument strings. For example, strncpy(s,t,n) copies at most n characters of t to s. Full descriptions are in Appendix B.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise4/out$ ./main
Strings are not equal
world
Concatenated String: helloworld o
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/BasicPointersandarray/Exercise4/out$
```


Q5)

Rewrite appropriate programs from earlier chapters and exercises with pointers instead of array indexing. Good possibilities include getline (Chapters 1 and 4), atoi, itoa, and their variants (Chapters 2, 3, and 4), reverse (Chapter 3), and strindex and getop (Chapter 4).

```
vanshit@66JC9F2-Desk:~/in
Found: 6
hello
Length of the string: 5

123
dlrow olleh
8 9 10 11 12 ?
topmost=12.000000
secondmost=11.000000 12
```

StructureandUnion

Exercise 1

Our version of getword does not properly handle underscores, string constants, comments, or preprocessor control lines. Write a better version.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise1/out$ ./main
x=y+z
Word: x
Word: =
Word: y
Word: +
Word: z
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise1/out$ ./main
#include <stdio.h>
Word: include <stdio.h>
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise1/out$ ./main
/* this is a comment */
Word: /* this is a comment */
```

Exercise 2

Write a program that prints the distinct words in its input sorted into decreasing order of frequency of occurrence. Precede each word by its count.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise2/out$ ./main
Word Count in Decreasing Order:
portal--->    count:3
A--->    count:2
science--->    count:2
computer--->    count:1
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise2/out$
```

Exercise 3

Write a cross-referencer that prints a list of all words in a document, and for each word, a list of the line numbers on which it occurs. Remove noise words like ``the," ``and," and so on.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise3/out$ ./main
The word 'Hello' belongs to line 1
The word 'world' belongs to line 1
The word 'good' belongs to line 2
The word 'evening' belongs to line 2
The word 'afternoon' belongs to line 3
The word 'is' belongs to line 3
The word 'blessed' belongs to line 3
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise3/out$
```

Exercise 4

Write a function undef that will remove a name and definition from the table maintained by lookup and install.

```

0   Moph   ---
1   ---
2   ---
3   ---
4   ---
5   ---
6   Jacob  ---
7   Kate   ---
8   ---
9   lilly  ---
|

```

```

vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise4/out$ ./main
found lilly
deleted word=lilly
0   Moph   ---
1   ---
2   ---
3   ---
4   ---
5   ---
6   Jacob  ---
7   Kate   ---
8   ---
9   ---
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise4/out$

```

Exercise 5

Implement a simple version of the `#define` processor (i.e., no arguments) suitable for use with C programs, based on the routines of this section. You may also find `getch` and `ungetch` helpful.

```

vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise5/out$ ./main
0   Moph   ---
1   ---
2   ---
3   ---
4   jake   ---
5   ---
6   Jacob  ---
7   Kate   ---
8   ---
9   lilly  ---
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/StructureandUnion/Exercise5/out$

```

Input and Output

Q1)

Write a program that converts upper case to lower or lower case to upper, depending on the name it is invoked with.

```
vrk@vrk-VirtualBox:~/testingpurpose$ ./main lower
Enter text to convert: HELLO
hello
```

```
vrk@vrk-VirtualBox:~/testingpurpose$ ./main upper
Enter text to convert: hello
HELLO
```

Q2)

Write a program that will print arbitrary input in a sensible way. As a minimum, it should print non-graphic characters in octal or hexadecimal according to local custom, and break long text lines.

```
vrk@vrk-VirtualBox:~/testingpurpose$ ./main
This is a longer string with more \011 than 20 characters.\012
vrk@vrk-VirtualBox:~/testingpurpose$
```

Q3)

Revise minprintf to handle more of the other facilities of printf.

```
vrk@vrk-VirtualBox:~/testingpurpose$ ./main
Hello,World
10
13
hello
11.000000vrk@vrk-VirtualBox:~/testingpurpose$
```

Q4)

Write a program to compare two files, printing the first line where they differ.

```
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ ./main
this is of file1.txt:new is change
this is of file2.txt:new is the change
files are not identicalvrk@vrk-VirtualBox:~/testingpurpose/fileio$
```

Q5)

Write a program to print a set of files, starting each new one on a new page, with a title and a running page count for each file.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise5/out$ ./main
-----
Title: /home/vanshit/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise5/file1.txt
Page: 1
hello world
changes meet
new people
-----
Title: /home/vanshit/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise5/file2.txt
Page: 2
nice to meet you
good to see you
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise5/out$
```

Q6)

Modify the pattern finding program of Chapter 5 to take its input from a set of named files or, if no files are named as arguments, from the standard input. Should the file name be printed when a matching line is found?

```
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ cat file1.txt
hello world is
new is change
good deeds work
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ ./main file1.txt
Pattern not foundvrk@vrk-VirtualBox:~/testingpurpose/fileio$
```

```
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ cat file1.txt
hello world is
new is change
good deeds work
ould is work
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ gcc app.c -o main
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ vi app.c
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ gcc app.c -o main
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ ./main file1.txt
Pattern found at line:ould is work
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise6/out$ ./main /home/vanshit/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise6/f
ile1.txt
Pattern found at line:ould is work
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise6/out$
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise6/out$
```

Q7)

Functions like isupper can be implemented to save space or to save time. Explore both Possibilities.

```
vrk@vrk-VirtualBox:~/testingpurpose/fileio$ ./main  
  
Number of upper case present in the sentence is : 3  
vrk@vrk-VirtualBox:~/testingpurpose/fileio$
```

Q8)

Write a private version of scanf analogous to minprintf from the previous section.

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise8/out$ ./main  
enter integer number=10  
number= 10  
  
enter float number=11.56  
number= 11.560000  
  
enter string number=hello  
string= hello  
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/InputandOutput/Exercise8/out$
```

Staticanddynamiclibrary

Static library:

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise1$ ar rcs libsample.a adddemo.o add.o div.o mul.o sub.o
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise1$ ls
add.c adddemo.c adddemo.o add.o div.c div.o head.h libsample.a mul.c mul.o sub.c sub.o
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise1$ gcc add.o -o main -L . -lsample
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise1$ ls
add.c adddemo.c adddemo.o add.o div.c div.o head.h libsample.a main mul.c mul.o sub.c sub.o
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise1$ ./main
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise1$ ./main
10 + 20 = 30
10 - 20 = -10
10 * 20 = 200
10 / 20 = 0vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise1$
```

Dynamic library:

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi adddemo.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi add.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi sub.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi mul.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi mul.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi div.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi adddemo.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ vi head.h
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ ls
add.c adddemo.c div.c head.h mul.c sub.c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ gcc -c add.c sub.c div.c mul.c -fPIC
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ ls
add.c adddemo.c add.o div.c div.o head.h mul.c mul.o sub.c sub.o
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ gcc *.o -shared -o libsample.so
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ ls
add.c adddemo.c add.o div.c div.o head.h libsample.so mul.c mul.o sub.c sub.o
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ gcc adddemo.c -c
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ ls
add.c adddemo.c adddemo.o add.o div.c div.o head.h libsample.so mul.c mul.o sub.c sub.o
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ gcc -o main adddemo.o -L. -lsample
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ ls
add.c adddemo.c adddemo.o add.o div.c div.o head.h libsample.so main mul.c mul.o sub.c sub.o
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ ./main
./main: error while loading shared libraries: libsample.so: cannot open shared object file: No such file or directory
```

```
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ export LD_LIBRARY_PATH=~/home/vanshit/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2
vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$ ./main
10 + 20 = 30
10 - 20 = -10
10 * 20 = 200
10 / 20 = 0vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/staticanddynamiclibrary/exercise2$
```

Compilation stages

```
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp$ cd Compilationstages/
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ gcc -E index.c
# 1 "index.c"
# 1 "<built-in>"
# 1 "<command-line>"
```

```
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ gcc -E index.c > index.i
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ ls
index.c  index.i
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ gcc -S index.i
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ ls
index.c  index.i  index.s
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ cat index.s
.file "index.c"
.text
.section .rodata
.LC0:
.string "Hello, World!"
.text
.globl main
.type main, @function
main:
.LFB0:
.cfi startproc
```

```
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ gcc -c index.s
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ ls
index.c  index.i  index.o  index.s
```

```
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ gcc -o index.o index.s
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ ls
a.out  index.c  index.i  index.o  index.s
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$ ./a.out
Hello, World!
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/Compilationstages$
```

Function Pointers

```
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionPointers/out$ ./main
sum=30
● vanshit@66JC9F2-Desk:~/internship/git/vanshit_kamdar_idp/FunctionPointers/out$
```