Pre-Requisites Workshop Report

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1) Verifying gcc compiler installer

Code: gcc -version

Output:

```
mahan@mahan-N515-52:~$ gcc --version
gcc (Ubuntu 9.3.0-17ubuntu1~20.04) 9.3.0
Copyright (C) 2019 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

mahan@mahan-N515-52:~$

■
```

```
2) Hello World
Code:
#include<stdio.h>
int main()
{
  printf("Hello World\n");
  return 0;
}
```

Output:

```
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1 Q = - □ &

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1$ gcc hello.c -o hello
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1$ ./hello

Hello World
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1$ ■
```

Part Two

1) Hello1.c

```
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1 Q = - □ Mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1$ gcc hello.c -o hello mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1$ ./hello Hello World mahan@mahan-N515-52: ~/Documents/PreRequisites/Part1$ ■
```

2) Hello2.c

```
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ gcc hello02.c -o hello02 mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ./hello02 Hello My favourite number is 19 mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$
```

3) Control01.c

```
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2 Q = - D S

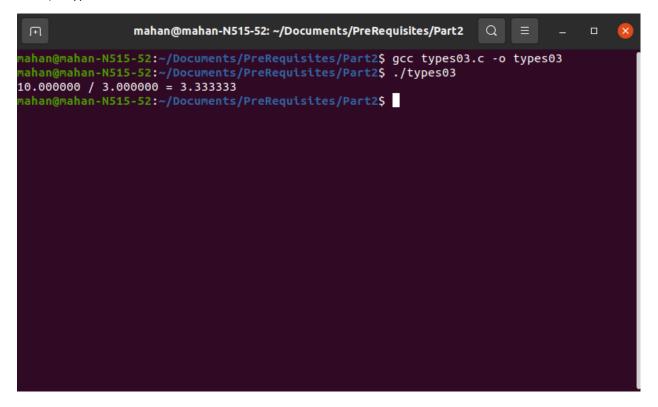
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ gcc control01.c -o control01
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ ./control01
0,1,2,3,4,
5,6,7,8,9,10,11,12,13,14,
custard
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$
```

4) Types01.c

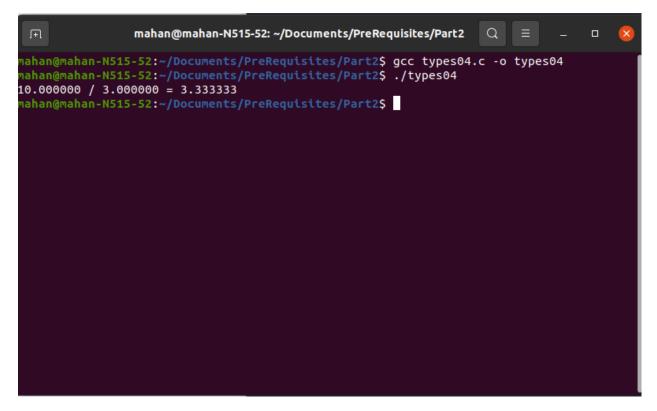
```
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ gcc types01.c -o types01
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ./types01
10 / 3 = 3
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$

mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$
```

5) Types03.c

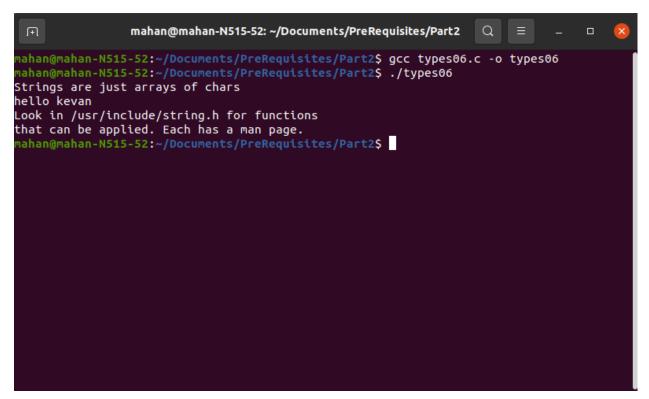


6) Types04.c



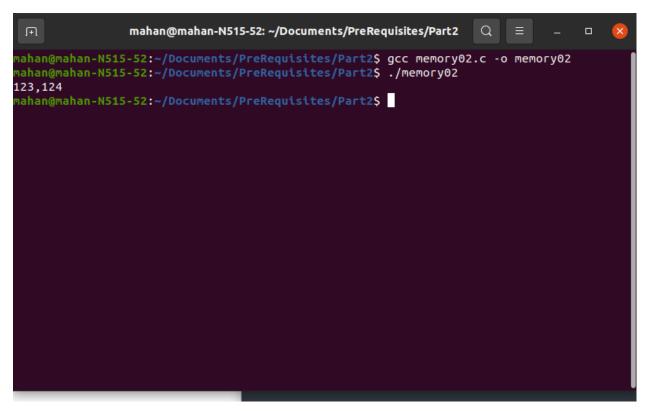
7) Types05.c

8) Types06.c



9) Memory01.c

10) Memory02.c

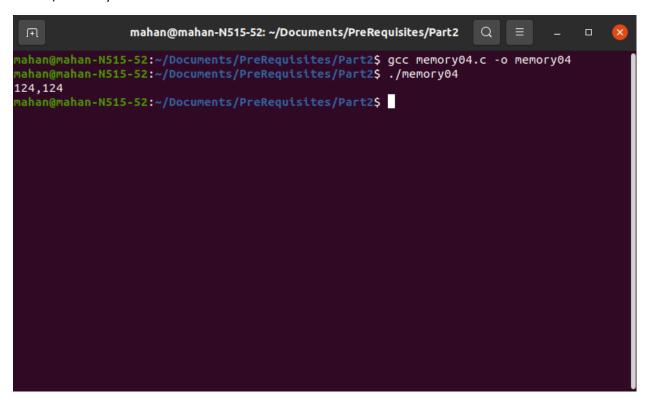


11) Memory03.c

```
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ gcc memory03.c -o memory03
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ./memory03
123,124
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$

mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$
```

12) Memory04.c



13) Memory05.c

```
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2 Q = - □ &

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ gcc memory05.c -o memory05

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ ./memory05

124,124

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ ■
```

14) Structs01.c

```
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2 Q = - □ &

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ gcc structs01.c -o structs01

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ ./structs01

Time a is 5:09:45

Time b is 5:09:45

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$
```

15) Structs02.c

```
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2 Q = - □ &

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ gcc structs02.c -o structs02

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$ ./structs02

Time a is 5:09:45

mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$

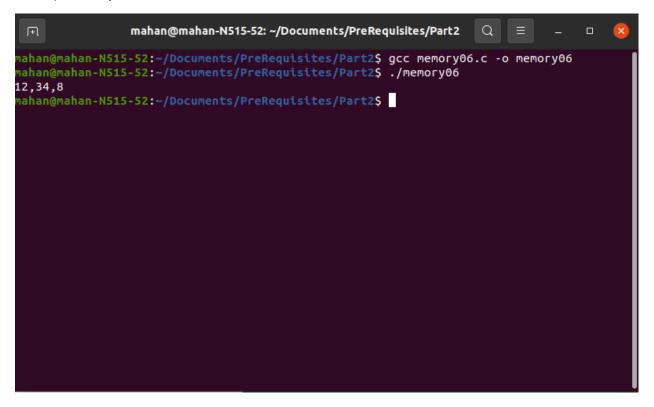
mahan@mahan-N515-52: ~/Documents/PreRequisites/Part2$
```

16) Structs03.c

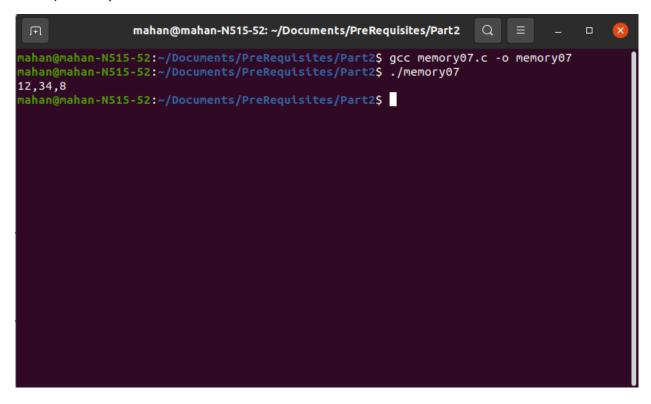
```
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2 Q = - □ 
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ gcc structs03.c -o structs03
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ./structs03
Time b is 5:09:45
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$

mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$
```

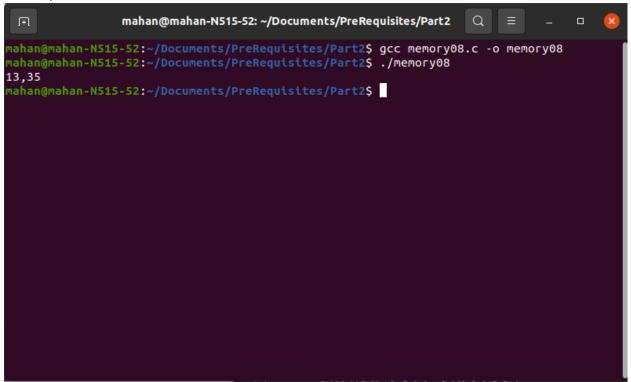
17) Memory06.c



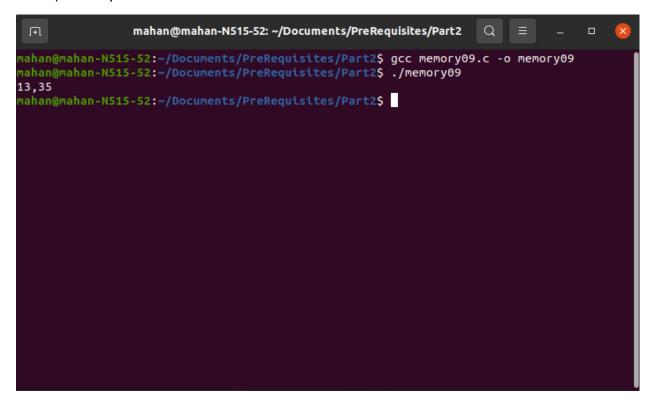
18) Memory07.c



19) Memory08.c



20) Memory09.c



21) Memory10.c

22) Memory11.c

23) Memory12.c

24) Memory13.c

```
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ gcc memory13.c -o memory13
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ./memory13
0,1
1,3
2,5
3,7
4,9
5,11
6,13
7,15
8,17
9,19
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ■
```

25) Memory14.c

```
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ gcc memory14.c -o memory14
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ./memory14
0,1
1,3
2,5
3,7
4,9
5,11
6,13
7,15
8,17
9,19
mahan@mahan-N515-52:~/Documents/PreRequisites/Part2$ ■
```