NAME: AMAN RANGARI SUBJECT: PPL MIS NO: 642303017 ASSIGNMENT NO:-01

ASSIGNMENT NO:- 01

PROGRAM:

```
#include<stdio.h>
int sum(int a,int b){ return a+b;
}
int main(){ int a,b;
printf("Enter the value of num 1: "); scanf("%d",&a);
printf("Enter the value of num 2: "); scanf("%d",&b);
printf("The sum of the given 2 numbers is : %d",sum(a,b));
}
```

Output:

i)

```
user student can run the following commands with sudo: systemctl apt dpkg docker
student@cc-91:-/om ppl$ cd expt1
student@cc-91:-/om ppl/expt1$ gcc expt1.c -o expt1
student@cc-91:-/om ppl/expt1$ .expt1
.expt1: command not found
student@cc-91:-/om ppl/expt1$ ./expt1
Enter the value of num 1: 4
Enter the value of num 2: 32
The sum of the given 2 numbers is : 36student@cc-91:-/om ppl/expt1$ gcc --save-temps expt1.c
student@cc-91:-/om ppl/expt1$ ./a.out
Enter the value of num 1: 53
Enter the value of num 2: 3
The sum of the given 2 numbers is : 56student@cc-91:-/om ppl/expt1$ ls
a-expt1.i a-expt1.o a-expt1.s a.out expt1 expt1.c sc1 sc2
student@cc-91:-/om ppl/expt1$
```

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ii)ppl2.s

```
.file
         "pp12.c"
   .text
   .globl function
   .type function, @function
function:
.LFB0:
   .cfi startproc
   endbr64
   pushq %rbp
   .cfi def cfa offset 16
   .cfi offset 6, -16
   movq %rsp, %rbp
   .cfi def cfa register 6
   subq $32, %rsp
   movq %fs:40, %rax
   movq %rax, -8(%rbp)
   xorl %eax, %eax
   nop
  movq -8 (%rbp), %rax
   subq %fs:40, %rax
         .L2
   jе
   call
         stack chk fail@PLT
.L2:
   leave
   .cfi def cfa 7, 8
   ret
   .cfi endproc
.LFE0:
   .size function, .-function
   .globl main
   .type main, @function
main:
.LFB1:
   .cfi startproc
   endbr64
   pushq %rbp
   .cfi def cfa offset 16
   .cfi offset 6, -16
   movq %rsp, %rbp
   .cfi def cfa register 6
   subq $16, %rsp
        $1, -12(%rbp)
   movl
   movl $5, -8(%rbp)
       $6, -4(%rbp)
   movl
        $0, %eax
   movl
   call
         function
```

```
movl
             $0, %eax
      leave
      .cfi def cfa 7, 8
      ret
      .cfi endproc
   .LFE1:
      .size main, .-main
      .ident "GCC: (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0"
                 .note.GNU-stack,"",@progbits
      .section
      .section
                  .note.gnu.property,"a"
      .align 8
      .long 1f - Of
      .long 4f - 1f
      .long 5
   0:
      .string
                  "GNU"
   1:
      .align 8
      .long 0xc0000002
      .long 3f - 2f
   2:
      .long 0x3
   3:
      .align 8
4:
     iv) ppl2.i:
   # 0 "pp12.c"
   # 0 "<built-in>"
   # 0 "<command-line>"
   # 1 "/usr/include/stdc-predef.h" 1 3 4
   # 0 "<command-line>" 2
   # 1 "ppl2.c"
   void function()
   char buff[5];
   char buff1[16];
   int main()
   int a=1, b=5, c=6;
   function();
   return 0;
   }
     iv) ppl2.o:
     GCC: (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0 ppl2.c function
    stack chk fail
   main .symtab .strtab .shstrtab .rela.text .data .bss .comment .note.G
   NU-stack .note.gnu.property .rela.eh frame
```