```
section .data
nline db 10,10
nline_len equ $-nline
space db " "
ano db 10,"Assignment no 1B",10
  db 10,"Overlapping block transfer without string instruction: ",10
ano_len equ $-ano
pmsg db 10,"Before transfer: ",10
pmsg_len equ $-pmsg
smsg db 10,"Source Block: "
smsg_len equ $-smsg
dmsg db 10,"Destination block: "
dmsg_len equ $-dmsg
amsg db 10,"after transfer: ",10
amsg_len equ $-amsg
sblock db 11h,22h,33h,44h,55h
dblock db 00h,00h,00h,00,00h
%macro Print 2
   mov rax, 1
   mov rdi, 1
   mov rsi, %1
   mov rdx, %2
   syscall
%endmacro
```

%macro exit 0

```
Print nline, nline_len
 mov rax, 60
 mov rdi, 0
 syscall
%endmacro
section .bss
char_ans resb 2
section .text
global _start
_start:
  Print ano,ano_len
  Print pmsg, pmsg_len
  Print smsg, smsg_len
  mov rsi, sblock
  call display
  Print dmsg, dmsg_len
  mov rsi, dblock-2
  call display
  call BT_O
     Print
           amsg,amsg_len
           smsg,smsg_len
     Print
     mov
            rsi,sblock
     call
            display
          dmsg,dmsg_len
     Print
            rsi,dblock-2
     mov
     call
            display
exit;
```

```
BT_O:
               rsi,sblock+4
                               ;rsi point at the end of sblock 0+4=4
       mov
                               ;rdi point at th eend of dblock -2+4=2
               rdi,dblock+2
       mov
               rcx,5
       mov
back: mov
               al,[rsi]
               [rdi],al
       mov
       dec
               rsi
       dec
               rdi
       dec
               rcx
       jnz
               back
RET
display:
  mov rbp, 5
next_num:
  mov al,[rsi]
  push rsi
  call disp_8
  Print space,1
  pop rsi
  inc rsi
  dec rbp
  jnz next_num
ret
disp_8:
  mov rsi, char_ans+1
  mov rcx, 2
  mov rbx, 16
next_digit:
  xor rdx,rdx
```

```
Assignment no 1B

Overlapping block transfer without string instruction:

Before transfer:

Source Block: 11 22 33 44 55

Destination block: 44 55 00 00 00

after transfer:
```

Source Block: 11 22 33 11 22 Destination block: 11 22 33 44 55