Q1 Code + Output

```
Include Irvine32.inc

data

.data
arrA sdword 30,-40,20,65,80,45

j sdword ?

k sdword ?

str1 byte "Enter The Value Of J:",0

str2 byte "Enter The Value Of K:",0

code

sumArr PROTO arr:ptr sdword, from:ptr sdword, to:ptr sd

main PROC

main PROC

acall TakeInput
invined Enter The Value Of J: 20
Enter The Value Of K:50
+195
Enter The Value Of K:90
+190
C:\Users\acer\source\repos\Practice\Debug\Practice.exe (process 132) exited with code of Press any key to close this window . . .

acall TakeInput
invinede sumArr, ADDR arrA, j,k, lengthof arrA
call writeint
call TakeInput
invinede sumArr, ADDR arrA, j,k, lengthof arrA
call TakeInput
call TakeInput
call TakeInput
call TakeInput
call TakeInput
call TakeInput
```

Q2 Code + Output

```
Include Irvine32.inc
                                                                                Microsoft Visual Studio Debug Console
         .data
                                                                               17
45
60
         arr dword 60,4,17,45,7
                                                                               C:\Users\student\source\repos\Project12\Debug\Project12.exe (pro Press any key to close this window . . .
    6
         .code
    8
         swap PROC
         push [esi]
         push [edi]
  10
         pop [esi]
         pop [edi]
         ret
         swap ENDp
  14

⊗ No issues found

                                               - | 을 | 을 | 돌 | 🍪
output from: Build
```

Q3 Code + Output

```
mov ebx,lengthof arr
                                                                     Microsoft Visual Studio Debug Console
          invoke bubble, addr arr
                                                                    Enter Value: 9
          mov ecx,lengthof arr
                                                                    Enter Value: 8
          mov esi, offset arr
                                                                    Enter Value: 7
          11:
                                                                    Enter Value: 6
          mov eax, [esi]
          call writedec
                                                                    Enter Value: 4
          call crlf
          add esi,4
                                                                    Enter Value: 3
          loop 11
                                                                    Enter Value: 2
                                                                    Enter Value: 1
          exit
          main ENDP
          end main

⊗ No issues found

utput
                                          로 | 을 | 을 | 발
ow output from: Build
```

Q4 Code + Output

```
Include Irvine32.inc

Microsoft Visual Studio Debug Console

Enter N:5
120
C:\Users\acce\source\repos\Practice\Debug\Practice.exe (process 15524) exited with code 0.
Press any key to close this window . . .

A str1 byte "Enter N:",0
C:\Users\acce\source\repos\Practice\Debug\Practice.exe (process 15524) exited with code 0.
Press any key to close this window . . .

A press any key to close this window . . .

The process are source\repos\Practice\Debug\Practice.exe (process 15524) exited with code 0.

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

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The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .

The press any key to close this window . . .
```

Q5 Code + Output

Q6 Code + Output

```
Microsoft Visual Studio Debug Console
continue:
                                         ^{\rm Z} (C:\Users\acer\source\repos\Practice\Debug\Practice.exe (process 20316) exited with code 0. Press any key to close this window . . .
mov esi,arr1
add esi,count
mov ebx,[esi]
mov esi,arr2
add esi,count
cmp ebx,[esi]
jne next
add count,4
loop 13
call writedec
pop ebx
pop esi
CountMatches ENDP
```

Q7 Code + Output

```
INCLUDE Irvine32.inc

INCLUDE Irvine32.inc

Microsoft Visual Studio Debug Console
The difference equals 22A21D067474CD32

C:\Users\acer\source\repos\Practice\Debug\Practice.exe (process 6356) exited with console press any key to close this window . . .

Press any key to close this window . . .

DoubleWords = SIZEOF op1 / TYPE DWORD

amin PROC
mov esi, OFFSET op1
mov edi, OFFSET op2
mov edi, OFFSET op2
mov edx, ObubleWords
call Extended_Sub
```

Q8 Code + Output

```
INCLUDE Irvine32.inc
                                                        Microsoft Visual Studio Debug Console
                                                       She addition equals 22C32B0674BB5736
                                                       C:\Users\acer\source\repos\Practice\Debug\Practice.exe (process 18832) exited with Press any key to close this window . . .
op1 QWORD 0A2B2A40674981234h
op2 QWORD 08010870000234502h
result QWORD 1 DUP(0); = 22C32B0674BB5736
msg BYTE "The addition equals ",0
DoubleWords = SIZEOF op1 / TYPE DWORD
.code
main PROC
mov esi, OFFSET op1
mov edi, OFFSET op2
mov ebx, OFFSET result
mov ecx, DoubleWords
{\tt call \ Extended\_Add}
mov edx, OFFSET msg
```

Q9 Code + Output

```
Microsoft Visual Studio Debug Console
    mov eax,a
    ret 8
    continue:
    cmp a,ebx
                            C:\Users\acer\source\repos\Practice\Debug\Practice.exe (process 6140) exited with code
    ja condition1
                            Press any key to close this window . . .
    condition2:
    sub ebx,a
    invoke gcd, a,ebx
    jmp quit
    condition1:
    sub edx,b
    invoke gcd, edx,b
    jmp quit
65
    quit:
    ret 8
66
    gcd ENDP
68 end main
    No issues fo
```

Q10 Code + Output

```
Adata

.data

.d
```