**PART 2**

**Task 1:**

Write an assembly language program to add the values of ax,bx,cx and dx registers using a subroutine. Let AX=65,BX=0x9,CX=42,DX=60h. save the sum in AX.

# Task 2:

Write a subroutine to calculate the 3rd maximum from an array of byte size considering signed numbers. Use single loop to implement this (iterate the array once only). Array is unsorted with 10 elements.

Don’t change the values from the question.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Value | 98 | FA | C9 | 45 | AD | B2 | 97 | 0F | B6 | 99 |

# Task 3:

Write a subroutine the finds a substring from array. If it is found then set =1 else ax=0. Pass the address of the string as a parameter. First calculate the size of the string then continue your code.

Let the

string: db 'This code finds a sub-string in a string.',0

Find\_me: db 'code',0