**PROGRAMS**

1. **Write an ALP to add given series of Numbers**

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| **ASSUME CS:CODE, DS:DATA**  **DATA SEGMENT**  **LIST DB 01H,02H,03H,04H,05H**  **COUNT DB 05H**  **RES DW 0H**  **DATA ENDS**  **CODE SEGMENT**  **START:**  **MOV AX, DATA**  **MOV DS, AX**  **MOV AX,0H**  **MOV CL,COUNT**  **LEA SI,LIST**  **GO:**  **ADD AL,[SI]**  **INC SI**  **DEC CL**  **JNZ GO**  **MOV RES,AX**  **INT 03H**  **CODE ENDS**  **END START** | **Result**  **Registers**    **Data Segment**    **Flag Register** |

1. **Write an ALP to find average of given series of Numbers**

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| **ASSUME CS:CODE, DS:DATA**  **DATA SEGMENT**  **LIST DB 01H,02H,03H,04H,05H**  **COUNT DB 05H**  **RES DB 0H**  **DATA ENDS**  **CODE SEGMENT**  **START:**  **MOV AX, DATA**  **MOV DS, AX**  **MOV AX,0H**  **MOV CL,COUNT**  **LEA SI,LIST**  **GO:**  **ADD AL,[SI]**  **INC SI**  **DEC CL**  **JNZ GO**  **MOV CL,COUNT**  **DIV CL**  **MOV RES,AL**  **INT 03H**  **CODE ENDS**  **END START** | **Result**  **Registers**    **Data Segment**    **Flag Register** |

1. **Write an ALP and execute progam to find sum of squares of given series of Numbers**

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| ASSUME CS:CODE, DS:DATA  DATA SEGMENT  LIST DB 01H,02H,03H,04H,05H  COUNT DB 05H  RES DW 0H  DATA ENDS  CODE SEGMENT  START:  MOV AX, DATA  MOV DS, AX  MOV AX,0H  MOV BX,0H  MOV DX,0H  MOV CL,COUNT  LEA SI,LIST  LEA DI,LIST  GO:  MOV AL,[SI]  MOV BL,[SI]  MUL BL  INC SI  ADD DX,AX  DEC CL  JNZ GO  MOV RES,DX  INT 03H  CODE ENDS  END START | Result  Registers    Data Segment    Flag Register |

1. **Write an ALP and execute progam to find sum of cubes of given series of Numbers**

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| --- | --- |
| ASSUME CS:CODE, DS:DATA  DATA SEGMENT  LIST DB 01H,02H,03H,04H,05H  COUNT DB 05H  RES DW 0H  DATA ENDS  CODE SEGMENT  START:  MOV AX, DATA  MOV DS, AX  MOV AX,0H  MOV BX,0H  MOV DX,0H  MOV CL,COUNT  LEA SI,LIST  LEA DI,LIST  GO:  MOV AL,[SI]  MOV BL,[SI]  MUL BL  MUL BL  INC SI  ADD DX,AX  DEC CL  JNZ GO  MOV RES,DX  INT 03H  CODE ENDS  END START | Result  Registers    Data Segment    Flag Register |