## Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE 2214

Course Title: Assembly Larguage Programming Assignment No: Sessional Larguage Programming

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Submitted By-

Group: C1

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Section : c

Question no: 1

suppose the class records are stored as follow.

CLASS

DB 'MARRY ALLEN', 67,45,98,33

DB 'SCOTT BAYLIS', 70, 56,87,44

DB 'GEORGE FRANK', 82,72,89,40

DB SAM WONG, 78,76,92,60

Each name occupies 12 bytes. White a programto print the name of each student and his on her average (truncted to an integer) for the four exams.

Answen:

· CODE

MAIN PROC

MOV AY, @DATA

MOV DS, AX

LEA DX INPUT

MO V AH,9

INT 21H

LEA SI, CLASS

MOV BH,4

MOV BL, 16

LEA DI AVERAGE LEA SI, CLASS ADD 51, 12 Mov cx,4

COMPUTE\_ AVERAGE: XOR AX, AX PXON DX,4

SUM: XOR BH, BH MOV BL, [SI] XA, XA DOA INC SI DEC DX JNZ SUM MOV BX,4 DIN BX MON [DI] YX App DI, 2

ADD 51,12

CALL DISPLAY ARRAY LOOP COMPUTE - AVERAGE LEA DX, RESULT MV AH,9 JN7 21 H LEA SI, AVERAGE LEA DI, CLASS MOV CX,4 PRINT\_RESULT: MOV BX,12 MOV Al1,2 S\_ NAME: MO V DL, [DI] INT 21H INC DI DEC BX JNZ S\_ NAME MN Dr' "=" INT 21H MON DL, 20H TNT 21H MOV DL, 2014

TNT 2114

MOV AL, [51]

CALL DECIMAL\_PRINT

MOV DL, ODA JNJ 21H

ADD S1,2
ADD D1,4

LOOP PRINT RESULT

MOV AH,4CH IM 21H MAIN ENDP

DISPLAY\_ARRAY\_PROC

PUSH AX

PUSH CX

PUSH DY

PUSH 51

WON CX BX

OUTER\_LOOP:

mor CL,BL

MON AH, 2

PRIM\_NAME:

May DL, [si]

HIS MI

INC 51

DEC CT

CMP CL, 4

JG PRIM\_ NAME

MON DL, 2011

INT 21H

INNER. LOOP.

Mov AH, 2

MOV DL, 20H

TNI 211+

XOR AH, AH

MOV AL, [S]

CALL DECIMAL PRIM

INCS

DEC CL

JNZ INNER-LOOP MOV AH, 2 MOU DI, ODH INT 21H MOV DL, JAH IM 2111 DEC CH JNZ OUTER\_LOOP POP SI POP DX POPCX XA 909 RET DISPLAY\_ APRAY ENDP DECIMAL - PRIM PROC PUSH BX PUSHCX PUSH DX YOR CX, CX

MOV DX,16

OUTPUT: XOR DX, DX DIV BX PUSH DX INC CX OR AX,AX JME OUT PUT MOV AH,2 PRINT : POP DX OR DL, 30H JNT 21 H LOOP PRINT POP DX POP CX POP BX RET DECIMAL PRINT ENDP END MAIN