Q1 Write a cobol program that compares three variables and print the desired output as mentioned below based on the given input. Accept the input from user and store it in a,b,c variables.

ID DIVISION.

PROGRAM ID. THREENUM.

ENVIRONMENT DIVISION.

DATA DIVISION.

WORKING-STORAGE SECTION.

01 A PIC 99.

01 B PIC 99.

01 C PIC 99.

PROCEDURE DIVISION.

ACCEPT A.

ACCEPT B.

ACCEPT C.

IF ((A = B) AND (B = C))

DISPLAY 'ALL ARE EQUAL'

END-IF

IF (A > C)

IF(A > B)

DISPLAY 'A IS BIGGER'

END-IF

END-IF

IF (B > A)

IF(B > C)

DISPLAY 'B IS BIGGER'

END-IF

END-IF

IF (C > A)

IF (C > B)

DISPLAY ' C IS BIGGER'

END-IF

END-IF

IF (A > B)

IF (B > C)

DISPLAY 'A AND B ARE BIGGER'

END-IF

END-IF

IF ( A > B)

IF ( C > B)

DISPLAY 'A AND C ARE BIGGER'

END-IF

END-IF

IF ( B > A)

IF ( C > A)

DISPLAY 'B AND C ARE BIGGER'

END-IF

END-IF

STOP RUN.

Q2. Write a COBOL program to accept a day and display if the day is working day or holiday. Use 88 level condition variables and evaluate statement.

IDENTIFICATION DIVISION.

PROGRAM-ID. DAYS.

DATA DIVISION.

WORKING-STORAGE SECTION.

01 WS-DAY PIC X(3).

88 WS-MON VALUE 'MON'.

88 WS-TUE VALUE 'TUE'.

88 WS-WED VALUE 'WED'.

88 WS-THU VALUE 'THU'.

88 WS-FRI VALUE 'FRI'.

88 WS-SAT VALUE 'SAT'.

88 WS-SUN VALUE 'SUN'.

PROCEDURE DIVISION.

ACCEPT WS-DAY.

EVALUATE TRUE

WHEN WS-MON OR WS-TUE OR WS-WED OR WS-THU OR WS-FRI

DISPLAY 'WORKING-DAY'

WHEN WS-SAT OR WS-SUN

DISPLAY 'HOLIDAY'

WHEN OTHER

DISPLAY 'WRONG-INPUT'

END-EVALUATE.

STOP RUN.

Q3. Write a COBOL program that accept names in a table. Display only those elements where the name starts with ‘A’ . The first letter should be in upper case and rest of the name to be in lower case .

IDENTIFICATION DIVISION.

PROGRAM-ID. tblname.

DATA DIVISION.

FILE SECTION.

WORKING-STORAGE SECTION.

01 WS-REC.

05 NAME1 OCCURS 10 TIMES.

10 FIRST1 PIC X(01).

88 FVALID VALUE 'A' THRU 'Z'.

10 LAST1 PIC X(03).

88 LVALID VALUE 'a' THRU 'z'.

77 I PIC 99.

PROCEDURE DIVISION.

MAIN-PROCEDURE.

ACCEPT WS-REC.

PERFORM A100-A-PARA

VARYING I FROM 1 BY 1 UNTIL I >10.

STOP RUN.

A100-A-PARA.

IF ( NAME1(I)(1:1) = 'A' ) THEN

IF( ( NAME1(I)(2:1) >= 'a' AND NAME1(I)(2:1) <= 'z') AND

( NAME1(I)(3:1) >= 'a' AND NAME1(I)(3:1) <= 'z') AND

( NAME1(I)(4:1) >= 'a' AND NAME1(I)(4:1) <= 'z') )

THEN

DISPLAY NAME1(I)

END-IF.

END PROGRAM tblname.

Q4. Adding of even odd numbers.

ID DIVISION. 00001000

PROGRAM-ID. EVENODD. 00002001

ENVIRONMENT DIVISION. 00003000

DATA DIVISION. 00004000

WORKING-STORAGE SECTION. 00005000

01 WS-NUM. 00010013

05 WS-ARR PIC 9(8) OCCURS 5 TIMES. 00010113

01 WS-NUM2 PIC 9(8). 00011001

01 WS-R PIC 9(8). 00012001

01 WS-R2 PIC 9(8). 00012102

01 WS-R3 PIC 9(8). 00012203

01 WS-ESUM PIC 9(8) VALUE ZERO. 00013001

01 WS-OSUM PIC 9(8) VALUE ZERO. 00014001

01 I PIC 9(1) VALUE ZERO. 00015013

PROCEDURE DIVISION. 00020000

PERFORM 5 TIMES 00020115

ADD 1 TO I 00020215

ACCEPT WS-ARR(I) 00020315

END-PERFORM 00020415

PERFORM MAIN-PARA VARYING I FROM 1 BY 1 UNTIL I > 5 00021015

STOP RUN. 00031108

MAIN-PARA. 00032008

DISPLAY WS-ARR(I) 00033015

COMPUTE WS-ESUM = 0 00034017

COMPUTE WS-OSUM = 0 00035017

PERFORM UNTIL WS-ARR(I) = 0 00040015

DIVIDE WS-ARR(I) BY 10 GIVING WS-NUM2 REMAINDER WS-R 00050015

DIVIDE WS-R BY 2 GIVING WS-R3 REMAINDER WS-R2 00060003

IF WS-R2 = 0 THEN 00070001

COMPUTE WS-ESUM = WS-ESUM + WS-R 00080001

ELSE 00090001

COMPUTE WS-OSUM = WS-OSUM + WS-R 00100001

END-IF 00110001

MOVE WS-NUM2 TO WS-ARR(I) 00111015

END-PERFORM 00120001

DISPLAY WS-ESUM 00130006

DISPLAY WS-OSUM. 00140001

Q5. Vowel program.

IDENTIFICATION DIVISION.

PROGRAM-ID. VOWEL.

ENVIRONMENT DIVISION.

DATA DIVISION.

WORKING-STORAGE SECTION.

77 WS-STR PIC X(15).

77 WS-CTR1 PIC 99 VALUE 0.

PROCEDURE DIVISION.

MAIN-PARA.

ACCEPT WS-STR.

PERFORM A100-PARA.

STOP RUN.

A100-PARA.

INSPECT WS-STR TALLYING WS-CTR1 FOR ALL 'A', 'a', 'E',

‘e’, 'I', 'i', 'O', 'O', 'u', 'U'.

DISPLAY "GIVEN STRING: " WS-STR.

DISPLAY "NUM OF VOWELS: "WS-CTR1.

Q6.Prime number

ID DIVISION. 00010000

PROGRAM-ID. PRIME. 00020000

ENVIRONMENT DIVISION. 00030000

DATA DIVISION. 00040000

WORKING-STORAGE SECTION. 00050000

01 WS-NUM1 PIC 9(2). 00060000

01 WS-NUM2 PIC 9(2). 00070000

01 WS-MOD PIC 9(2). 00071000

01 I PIC 9(2) VALUE 1. 00072006

01 J PIC 9(2) VALUE 1. 00073006

01 X PIC 9(2) VALUE 1. 00074006

01 C PIC 9(2) VALUE 1. 00075035

PROCEDURE DIVISION. 00080000

MAIN-PARA. 00081032

ACCEPT WS-NUM1 00090038

ACCEPT WS-NUM2 00100038

PERFORM PARA-1 VARYING I FROM WS-NUM1 BY 1 00110010

UNTIL I > WS-NUM2. 00111032

STOP RUN. 00112040

PARA-1. 00220010

COMPUTE C = 0 00220137

PERFORM PARA-2 VARYING J FROM 2 BY 1 00221032

UNTIL J = WS-NUM1 00222036

IF C = 0 00222135

DISPLAY I. 00222235

PARA-2. 00223032

DIVIDE I BY J GIVING X REMAINDER WS-MOD 00230039

IF WS-MOD = 0 THEN 00240035

COMPUTE C = C + 1 00270035

END-IF.