

## Qbasic Programs SEE 2067-2075

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# Qbasic Programs SEE 2067-2075

## QBASIC PROGRAM

**SEE  
2067-2075**

```

File Edit View Search Run Debug
SCREEN 0, 0, 1, 0: COLOR 7: CLS
COLOR red
DIM stars(100), sx(100), sy(100)
FOR s = 0 TO 100
    RANDOMIZE TIMER
    n = INT(RND * 3) + 1
    SELECT CASE n
        CASE 1      stars(s) = 7
        CASE 2      stars(s) = 8
        CASE 3      stars(s) = 9
    END SELECT
    sx(s) = RND * 100
    sy(s) = RND * 100
    PRINT "#"; ?;"wikipedia.org"
    INKEY$()
    CLS
    SLEEP 100
NEXT s
END
??"wikipedia.org"
Shift+F1=Help <F6=Window> <F2=Save>

```

*Qbasic Programs SEE 2067-2075*

**SEE 2067 Qbasic programs**

- a. Using FUNCTION...END FUNCTION write a program to find the average of three numbers. (3)

DECLARE FUNCTION AVG (a, b, c)

CLS

INPUT " ENTER FIRST NUMBER"; a

**Computer Science**

```

PRINT" THE AVERAGE NUMBER IS"; AVG (a, b, c)
END
FUNCTION AVG (a, b, c)
Average= (a + b + c)/3
AVG= Average
END FUNCTION

```

**b. Write a program to test whether a number is completely divisible by 13 or not. Use SUB.....END SUB. (3)**

```

DECLARE SUB CHECK(N)
CLS
INPUT" ENTER A NUMBER"; N
CALL CHECK(N)
END
SUB CHECK(N)
IF N MOD 13=0 THEN
PRINT "THE NUMBER IS COMPLETELY DIVISIBLE BY 13"
ELSE
PRINT "THE NUMBER IS NOT COMPLETELY DIVISIBLE BY 13"
END IF
END

```

**c. A sequential data file “EMP.DAT” contains name, post, and salary fields of information about employees. Write a program to display all the information of employees along with tax amount also (Tax is 15% of salary). (3)**

```

OPEN "EMP.DAT" FOR INPUT AS #1
CLS

```

**Computer Science**

```
TAX= (15/100) * SALARY  
PRINT NAME$, POST$, SALARY, TAX  
LOOP  
CLOSE # 1  
END
```

**SEE 2068 Qbasic programs**

- a. Write a program to calculate the area of four walls using SUB...END  
**SUB. (3)**

```
DECLARE SUB AREA (L, B, H)  
CLS  
INPUT "ENTER LENGTH"; L  
INPUT "ENTER BREADTH"; B  
INPUT "ENTER HEIGHT"; H  
CALL AREA (L, B, H)  
END  
SUB AREA (L, B, H)  
A = 2 * H * (L + B)  
PRINT "AREA OF FOUR WALLS ="; A  
END SUB
```

- b. Write a program using FUNCTION.....END FUNCTION to get a word from the user and print it in reverse order. (3)

```
DECLARE FUNCTION REVERSE$ (S$)  
CLS  
INPUT "ENTER ANY WORD"; S$  
PRINT "REVERSED WORD IS "; REVERSE$(S$)
```

**Computer Science**

```
FOR I = LEN(S$) TO 1 STEP -1
```

```
B$ = MID$(S$, I, 1)
```

```
W$ = W$ + B$
```

```
NEXT I
```

```
REVERSE$ = W$
```

```
END FUNCTION
```

**c. A sequential data file called “student.dat” contains some records under the field’s name, English, Nepali, and Computer. Write a program to add some more records in the same sequential data file.**

**(3)**

```
OPEN “student.dat” FOR APPEND AS #1
```

```
DO
```

```
CLS
```

```
INPUT “ENTER NAME”; N$
```

```
INPUT “ENTER MARKS IN ENGLISH”; E
```

```
INPUT “ENTER MARKS IN NEPALI”; N
```

```
INPUT “ENTER MARKS IN COMPUTER”; C
```

```
WRITE #1, N$, E, N, C
```

```
INPUT “DO YOU WANT TO CONTINUE? (Y/N)”; CH$
```

```
LOOP WHILE UCASE$(CH$) = “Y”
```

```
CLOSE #1
```

```
END
```

**SEE 2069 Qbasic Programs**

**a. Write a program to find the numbers of vowels in an input string using FUNCTION .... END FUNCTION. (3)**

## Computer Science

```

INPUT "ENTER ANY STRING"; S$
PRINT "TOTAL NO. OF VOWELS= "; COUNT(S$)
END

FUNCTION COUNT (S$)
C = 0
FOR I = 1 TO LEN(S$)
A$ = MID$(S$, I, 1)
B$ = UCASE$(B$)
IF B$ = "A" OR B$ = "E" OR B$ = "I" OR B$ = "O" OR B$ = "U" THEN
C = C + 1
END IF
NEXT I
COUNT = C
END FUNCTION

```

**b. Write a program using sub procedure module to print the series**

**1,1,2,3,5,8.. up to ten terms. (3)**

```
DECLARE SUB SERIES ( )
```

```
CLS
```

```
CALL SERIES
```

```
END
```

```
SUB SERIES ( )
```

```
A = 0
```

```
B = 1
```

```
FOR I = 1 TO 10
```

```
C = A + B
```

```
PRINT C;
```

```
A = B
```

**Computer Science**

END SUB

c. Write a program to create a data file ‘teldir.dat’ to store Name, Address and Telephone number of employees according to the need of the user. (3)

OPEN “teldir.dat” FOR OUTPUT AS #1

DO

CLS

INPUT “ENTER NAME”; N\$

INPUT “ENTER ADDRESS”; A\$

INPUT “ENTER TELEPHONE NUMBER”; T

WRITE #1, N\$, A\$, T\$

INPUT “DO YOU WANT TO CONTINUE(Y/N)”; CH\$

LOOP WHILE UCASE\$(CH\$) = ”Y”

CLOSE #1

END

**SEE 2070 Qbasic Programs**

a. Write a program using Function.....End Function to get the temperature in Celsius from the user and then print the temperature in Fahrenheit. (hint:  $F=9/5*c+32$ ). (3)

DECLARE FUNCTION TEMP (C)

CLS

INPUT “ENTER TEMPERATURE IN CELCIUS”; C

PRINT “TEMPERATURE IN FAHRENHEIT=”; TEMP (C)

END

FUNCTION TEMP (C)

**Computer Science**

END FUNCTION

**b. Write a program using Sub....End Sub to get a word from the user and then print it in reverse order. (3)**

DECLARE SUB REVERSE (W\$)

CLS

INPUT "Enter any word"; W\$

CALL REVERSE(N\$)

END

SUB REVERSE (W\$)

FOR I = LEN(W\$)

C\$ = MID\$(W\$, I, 1)

R\$=R\$+C\$

NEXT I

PRINT "The word in reverse order is "; R\$

END SUB

**c. A sequential data file called “Marks.dat” contains Name, English, Nepali, Math’s and Science Fields. Write a program to display all the contents of that data file. (3)**

OPEN "Marks.dat" FOR INPUT AS #1

CLS

PRINT "NAME", "ENGLISH", "NEPALI", "MATHS", "SCIENCE"

DO WHILE NOT EOF (1)

INPUT #1, N\$, E, N, M, S

PRINT N\$, E, N, M, S

LOOP

**Computer Science****SEE 2071 Qbasic Programs**

- a. Write a program using FUNCTION.... END FUNCTION to input a string and count the total number of consonants. (3)

```
DECLARE FUNCTION COUNT(W$)
CLS
INPUT "Enter a Word"; W$
PRINT "The total number of consonant is"; COUNT(W$)
END
FUNCTION COUNT (W$)
C = 0
FOR I = 1 TO LEN(W$)
A$ = MID$(W$, I, 1)
B$ = UCASE$(B$)
IF B$ <> "A" AND B$ <> "E" AND B$ <> "I" AND B$ <> "O" AND B$ <> "U" THEN C = C + 1
NEXT I
COUNT = C
END FUNCTION
```

- b. Write a program using SUB.....END SUB to find the area of circle. (3)

```
DECLARE SUB AREA(R)
CLS
INPUT "Enter radius"; R
CALL AREA(R)
END
```

**Computer Science**

```
PRINT "The area of circle="; A  
END SUB
```

c. A data file “Salary.Dat” contains the information of employees regarding their name, post, and salary. Write a program to display all the information of employees whose salary is greater than 15000 and less than 40000.

```
OPEN "Salary.dat" FOR INPUT AS #1  
CLS  
DO WHILE NOT EOF (1)  
    INPUT #1, N$, P$, S  
    IF S>15000 AND S<40000 THEN  
        PRINT N$, P$, S  
    LOOP  
    CLOSE #1  
END
```

**SEE 2072 Qbasic Programs**

a. Write a program using SUB... END SUB to display the reverse of input-string. (3)

```
DECLARE SUB Reverse(S$)  
CLS  
INPUT "ENTER ANY STRING"; S$  
CALL Reverse(S$)  
END  
SUB Reverse(S$)  
FOR I= LEN(S$) TO 1 STEP -1  
    B$=MID$(A$, I, 1)
```

**Computer Science**

```
PRINT "REVERSED STRING="; R$  
END SUB
```

**b. Write a program using FUNCTION...END FUNCTION to find the area of the triangle. (3)**

```
DECLARE FUNCTION AREA (B, H)  
CLS  
INPUT "ENTER BASE"; B  
INPUT "ENTER HEIGHT"; H  
PRINT "AREA OF TRIANGLE"; AREA (B, H)  
END  
FUNCTION AREA (B, H)  
AREA = (1/2) * B * H  
END FUNCTION
```

**c. A sequential data file called “Marks.dat” contains NAME, AGE, CITY, and TELEPHONE fields. Write a program to display all the contents of the data file. (3)**

```
OPEN "Marks.dat" FOR INPUT AS #1  
CLS  
DO WHILE NOT EOF (1)  
INPUT #1, N$, A, C$, T$  
PRINT N$, A, C$, T$  
LOOP  
CLOSE #1  
END
```

**Computer Science**

**a. Write a program to calculate the area of four walls using Sub....End Sub. [Hint: Area=2H(L+B). (3)**

DECLARE SUB AREA (L, B, H)

CLS

INPUT "ENTER LENGTH"; L

INPUT "ENTER BREADTH"; B

INPUT "ENTER HEIGHT"; H

CALL AREA (L, B, H)

END

SUB AREA (L, B, H)

A = 2 \* H \* (L + B)

PRINT "AREA OF FOUR WALLS"; A

END SUB

**b. Write a program to input a word in the main module and count the total number of vowel characters present in the word using**

**FUNCTION...END FUNCTION. (3)**

DECLARE FUNCTION COUNT (S\$)

CLS

INPUT "ENTER ANY STRING"; S\$

PRINT "TOTAL NO. OF VOWELS= "; COUNT(S\$)

END

FUNCTION COUNT (S\$)

C = 0

FOR I = 1 TO LEN(S\$)

A\$ = MID\$(S\$, I, 1)

B\$ = UCASE\$(B\$)

IF B\$ = "A" OR B\$ = "E" OR B\$ = "I" OR B\$ = "O" OR B\$ = "U" THEN

**Computer Science**

```

NEXT I
COUNT = C
END FUNCTION

```

**c. Create a data file to store the records of few employees having Name, Address, Post, Gender and Salary fields. (3)**

```

OPEN "std.dat" FOR OUTPUT AS #1
CLS
DO
INPUT "Enter Name"; N$
INPUT "Enter Address"; A$
INPUT "Enter Post"; P$
INPUT "Enter gender"; G$
INPUT "Enter Salary"; S
WRITE #1, N$, A$, P$, G$, S
INPUT "Do you want to continue"; CH$
LOOP WHILE UCASE$(CH$) = "Y"
CLOSE #1
END

```

**SEE 2074 Qbasic Programs**

**a. Write a program to calculate the area of a circle using Sub..... End Sub. (3)**

```

DECLARE SUB AREA (R)
CLS
INPUT "ENTER THE RADIUS"; R
CALL AREA(R)

```

**Computer Science**

```
A= (22/7) * R^ 2  
PRINT" THE AREA OF CIRCLE IS "; A  
END SUB
```

**b. Write a program using FUNCTION... END FUNCTION to count the number of words in a sentence. (3)**

```
DECLARE FUNCTION COUNT(S$)  
CLS  
INPUT" ENTER A SENTENCE"; S$  
PRINT" TOTAL NUMBER OF WORDS"; COUNT(S$)  
END  
FUNCTION COUNT(S$)  
W=1  
FOR I = 1 TO LEN(S$)  
C$=MID$(S$, I, 1)  
IF C$ = " " THEN  
W=W+1  
END IF  
NEXT I  
COUNT=W  
END FUNCTION
```

**c. Write a program to store Roll no., Name, Class, and Address of any five students. (3)**

```
OPEN "STD.DAT" FOR OUTPUT AS #1  
CLS  
FOR I = 1 TO 5  
INPUT" ENTER ROLL NUMBER"; RN
```

**Computer Science**

```
INPUT" ENTER ADDRESS"; A$  
WRITE #1, RN, N$, C, A$  
NEXT I  
CLOSE #1  
END
```

**SEE 2075 Qbasic Programs**

- a. Write a program to calculate the average of three numbers using the FUNCTION procedure. (3)

```
DECLARE FUNCTION Average (A, B, C)  
CLS  
INPUT "ENTER FIRST NUMBER"; A  
INPUT "ENTER SECOND NUMBER"; B  
INPUT "ENTER THIRD NUMBER"; C  
PRINT "The average of three number is"; Average (A, B, C)  
END  
FUNCTION Average (A, B, C)  
Avg = (A+B+C)/3  
Average = Avg  
END FUNCTION
```

- b. Write a program to print the total number of vowel alphabets present in the given word using SUB procedure. (3)

```
DECLARE SUB Vowel (W$)  
CLS  
INPUT "ENTER ANY STRING"; W$
```

## Computer Science

```
SUB Vowel (W$)
FOR I = 1 TO LEN (W$)
A$ = MID$(W$, I, 1)
C$ = UCASE$(A$)
IF C$ = "A" OR C$ = "E" OR C$ = "I" OR C$ = "O" OR C$ = "U" THEN
C=C+1
END IF
NEXT I
PRINT "TOTAL NO. OF VOWELS= "; C
END SUB
```

c. A data file “STAFF.dat” has stored records of few employees with EMPID, First name, last name, post and salary. Write a program to display all the records of the employees whose salary is more than 40,000. (3)

```
OPEN “STAFF.dat” FOR INPUT AS #1
CLS
DO WHILE NOT EOF (1)
INPUT #1, ID, F$, L$, P$, S
IF S > 40000 THEN
PRINT ID, F$, L$, P$, S
LOOP
CLOSE #1
END
```



## Computer Science



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## Computer Science



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1

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