

Sub Procedure

1. To find the sum of two entered numbers.

```
DECLARE SUB SUM (A,B)

CLS

INPUT "ENTER FIRST VALUE";A

INPUT"ENTER SECOND VALUE";B

CALL SUM (A,B)

END

SUB SUM (A,B)

SUMT=A+B

PRINT "THE SUM OF TWO VALUES";SUMT

END SUB
```

2. To find the average of two values.

```
DECLARE SUB AVG ( X, Y )

CLS

INPUT " ENTER THE FIRST VALUE"; X

INPUT "ENTER THE SECOND VALUE";Y

CALL AVG (X,Y)

END

SUB AVG (X,Y)

AVGT= (X+Y)/2

PRINT "THE AVERAGE OF TWO VALUES"; AVGT

END SUB
```

3. Program to generate the 1,1,2,3,5 series upto 10th term.

```
DECLARE SUB XYZ ()  
  
CLS  
  
CALL XYZ  
  
END  
  
SUB XYZ  
  
X=1  
  
Y=1  
  
FOR I= 1 TO 10  
  
PRINT X  
  
Z=X+Y  
  
X=Y  
  
Y=Z  
  
NEXT  
  
END SUB
```

4. Program to generate the 1,1,2,3,5 series upto 10th term.

```
DECLARE SUB XYZ ()  
  
CLS  
  
CALL XYZ  
  
END  
  
SUB XYZ  
  
X=1  
  
Y=1  
  
FOR I= 1 TO 10  
  
PRINT X
```

Z=X+Y

X=Y

Y=Z

NEXT

END SUB

5. Program to generate the following series 2,22,222 upto 10th term

DECLARE SUB SERIES

CLS

CALL SERIES

END

SUB SERIES

N=2

FOR I=1 TO 10

PRINT N

N=N*10+2

END SUB

6. Program to reverse a string which is passed as a parameter using SUB... END SUB

DECLARE SUB REV (N\$)

N\$="NEPAL"

CALL REV (N\$)

END

SUB REV (N\$)

FOR I = LEN (N\$) TO 1 STEP -1

R\$ = MID\$ (N\$, I, 1)

PRINT R\$

NEXT I

END SUB

7. Program to reverse a string which is given (input) by the user.

DECLARE SUB REV (W\$)

CLS

INPUT"ENTER A STRING"; W\$

CALL REV (W\$)

END

SUB REV (W\$)

FOR I = LEN(W\$) TO 1 STEP -1

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

PRINT R\$

NEXT I

END SUB

8. Program to check the entered string is Palindrome or not.

DECLARE SUB PAL (S\$)

CLS

INPUT"ENTER A STRING"; S\$

REV\$ = PAL (S\$)

IF REV\$= S\$ THEN

CALL PALL (S\$) ELSE

PRINT " THE WORD IS NOT A PALINDROME"

END

SUB PAL (S\$)

```

L= LEN (S$)
FOR I = L TO 1 STEP -1
REV$ = REV$ + MID$ (S$, I, L)
NEXT I
PAL$ = REV$
PRINT "THE WORD IS A PALINDROME"
END SUB

```

9. Program to find vowels from a entered word

```

DECLARE SUB VOWEL (V$)
CLS
INPUT "ENTER A STRING"; V$
CALL VOWEL (V$)
END
SUB VOWEL (V$)
L = LEN (V$)
FOR I = 1 TO L
CH$ = MID$ (V$, I, L)
IF CH$ = "A" OR CH$= "a" OR CH$ = "E" OR "e" OR CH$ = "I" OR CH$ = "i" OR CH$ = "O" OR CH$ = "o"
OR CH$ = "U" OR CH$ ="u" THEN
PRINT CH$;
END IF
NEXT I
END SUB

```

10. Program to find consonant from a entered word

```

DECLARE SUB XYZ

```

```

CLS
CALL XYZ
END
SUB XYZ
INPUT "ENTER A WORD"; W$
FOR I = 1 TO LEN (W$)
X$ = MID$ (W$, I, 1)
X$= UCASE$(X$)
IF X$ <> "A" AND X$ <> "E" AND X$ <> "I" AND X$ <> "O" AND X$ <> "U" THEN
C = C+1
NEXT
PRINT "TOTAL CONSONANT = ";C
END SUB

```

11. Program to convert Celsius to Fahrenheit where $F = (9/5 * C) + 32$

```

DECLARE SUB CTOF ( C )
CLS
INPUT " ENTER DEGREE IN CELSIUS "; C
CALL CTOF ( C )
END
SUB CTOF ( C )
F = (9 * C /5 ) + 32
PRINT " IN FAHRENHIET " ; F
END SUB

```

12. Program to calculate simple interests

```

DECLARE SUB SIM (P,T,R,)

```

```

CLS
INPUT " ENTER PRINCIPAL AMOUNT"; P
INPUT "ENTER TIME"; T
INPUT "ENTER RATE"; R
CALL SIM (P,T,R)
END
SUB SIM (P,T,R)
SI = ( P*T*R )/100
PRINT "SIMPLE INTEREST ="; SI
END SUB

```

13. To check if the entered letter is small or capital.

```

DECLARE SUB UC(A$)
CLS
INPUT "Enter a letter"; A$
CALL UC(A$)
END
SUB UC(A$)
CH$ = UCASE$(A$)
IF A$ = CH$ THEN
PRINT "It is capital letter"
ELSE
PRINT "It is small letter"
END IF
END SUB

```

14. Program to check a given number is palindrome or not in qbasic

```
DECLARE SUB A (N)

CLS

INPUT "ENTER A NUMBER"; N

CALL A(N)

END

SUB A (N)

S = N

WHILE N <> 0

B = N MOD 10

R = R * 10 + B

N = FIX(N / 10)

WEND

IF S = R THEN

PRINT "IT IS PALINDROME"

ELSE

PRINT "IT IS NOT PALINDROME"

END IF

END SUB
```

15. Program to check a given string is palindrome or not in qbasic

```
DECLARE SUB A(S$)

CLS

INPUT "ENTER A STRING"; S$

CALL A(S$)

END

SUB A(S$)
```



```

FOR I = LEN(S$) TO 1 STEP -1
M$ = MID$(S$, I, 1)
REV$ = REV$ + M$
NEXT I
IF S$ = REV$ THEN
PRINT "THE GIVEN STRING IS PALINDROME"
ELSE
PRINT "IT IS NOT PALINDROME"
END IF
END SUB

```

16. Program to check given number is Armstrong or not in qbasic

```

DECLARE SUB A(N)
CLS
INPUT "ENTER A NUMBER"; N
CALL A(N)
END
SUB A(N)
S=N
WHILE N <> 0
B = N MOD 10
R = R + B ^ 3
N = FIX(N / 10)
WEND
IF S = R THEN
PRINT "THE GIVEN NUMBER IS ARMSTRONG"

```

```
ELSE
PRINT "IT IS NOT ARMSTRONG"
END IF
END SUB
```

17. Program to reverse a given number in qbasic

```
DECLARE SUB A(N)
CLS
INPUT "ENTER A NUMBER"; N
CALL A(N)
END
SUB A(N)
WHILE N <> 0
B = N MOD 10
R = R * 10 + B
N = FIX(N / 10)
WEND
PRINT R
END SUB
```

18. Program to convert decimal to hexadecimal in qbasic

```
DECLARE SUB Z (N)
CLS
INPUT "ENTER A DECIMAL VALUE"; N
CALL Z(N)
END
SUB Z (N)
```

```
WHILE N <> 0
K = N MOD 16
IF K = 10 THEN
B$ = "A"
ELSEIF K = 11 THEN
B$ = "B"
ELSEIF K = 12 THEN
B$ = "C"
ELSEIF K = 13 THEN
B$ = "D"
ELSEIF K = 14 THEN
B$ = "E"
ELSEIF K = 15 THEN
B$ = "F"
ELSE
B$ = STR$(K)
END IF
H$ = B$ + H$
N = FIX(N / 16)
WEND
PRINT "HEXADECIMAL VALUE IS "; H$
END SUB
```