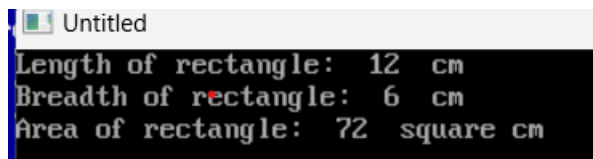


1. WAP to calculate the area of rectangle if length is 12 cm and breadth is 6 cm.

```
CLS  
LET length = 12  
LET breadth = 6  
LET area = length * breadth  
PRINT "Length of rectangle: "; length; " cm"  
PRINT "Breadth of rectangle: "; breadth; " cm"  
PRINT "Area of rectangle: "; area; " square cm"  
END
```

OUTPUT



```
Length of rectangle: 12 cm  
Breadth of rectangle: 6 cm  
Area of rectangle: 72 square cm
```

2. QBASIC PROGRAM TO CALCULATE COST OF PAINTING THE FOUR WALLS OF A ROOM

```
CLS  
INPUT "ENTER LENGTH"; L  
INPUT "ENTER BREADTH"; B  
INPUT "ENTER HEIGHT"; H  
INPUT "ENTER COST OF A PAINTING"; C  
 $A = 2 * H * (L + B)$   
 $T = C * A$   
PRINT "COST OF PAINTING A ROOM"; T  
END
```

3. Qbasic program to generate following sequences using for next loop:

i) 2 4 6 8 10

ii) 1 3 5 7 9

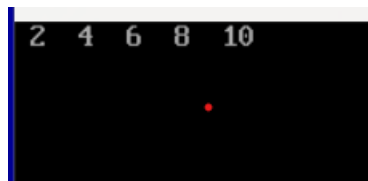
' QBasic program to generate the sequence: 2 4 6 8 10

```
FOR i = 2 TO 10 STEP 2
```

```
    PRINT i;
```

```
NEXT i
```

```
END
```



' QBasic program to generate the sequence: 1 3 5 7 9

```
FOR i = 1 TO 9 STEP 2
```

```
    PRINT i;
```

```
NEXT i
```

```
END
```

4. WAP to input the marks of at least 5 subjects and calculate the grand total.

CLS

```
INPUT "Enter the marks of English"; E
```

```
INPUT "Enter the marks of Nepali"; N
```

```
INPUT "Enter the marks of Mathematics"; M
```

```
INPUT "Enter the marks of Social Studies"; SS
```

```
INPUT "Enter the marks of Science"; S
```

$$T = E + N + M + SS + S$$

```
PRINT "The total marks obtained ="; T
```

END

OUTPUT:

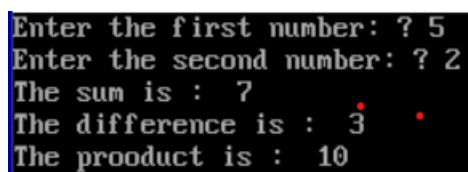
```

Enter the marks of English? 75
Enter the marks of Nepali? 65
Enter the marks of Mathematics? 85
Enter the marks of Social Studies? 65
Enter the marks of Science? 75
The total marks obtained = 365

```

5. WAP to input any two numbers and find their sum, difference and product.

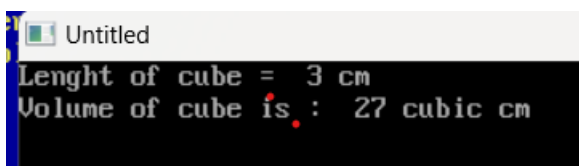
```
CLS
INPUT "Enter the first number: "; num1
INPUT "Enter the second number: "; num2
Sum = num1 + num2
Difference = num1 - num2
Product = num1 * num2
PRINT "The sum is : "; Sum
PRINT "The difference is : "; Difference
PRINT "The prooduct is : "; Product
END
```



A screenshot of a BASIC program execution. The window title is 'Untitled'. The text displayed is: 'Enter the first number: ? 5', 'Enter the second number: ? 2', 'The sum is : 7', 'The difference is : 3', and 'The prooduct is : 10'. There are some red dots on the output lines.

6. WAP to calculate volume of cube whose length is 3 cm.

```
CLS
LET l = 3
Volume = l * l * l
PRINT "Lenght of cube = "; l; "cm"
PRINT "Volume of cube is : "; Volume; "cubic cm"
END
```



A screenshot of a BASIC program execution. The window title is 'Untitled'. The text displayed is: 'Lenght of cube = 3 cm' and 'Volume of cube is : 27 cubic cm'. There are some red dots on the output lines.

7. WAP to calculate the area of triangle when all three sides are given.

REM Program to find area of triangle when all three sides are given

CLS

LET a = 6

LET b = 4

LET c = 8

$s = (a + b + c) / 2$

$area = (s * (s - a) * (s - b) * (s - c)) ^ {1 / 2}$

PRINT "First side of a triangle : "; a; "cm"

PRINT "Second side of a triangle : "; b; "cm"

PRINT "Third side of a triangle : "; c; "cm"

PRINT "Area of the triangle is: "; area; "square cm"

END

```
First side of a triangle : 6 cm
Second side of a triangle : 4 cm
Third side of a triangle : 8 cm
Area of the triangle is: 11.61895 square cm
```

To check prime or not

```
INPUT "ENTER ANY NUMBER"; N

C = 0

FOR I = 1 TO N

IF N MOD I = 0 THEN C = C + 1

NEXT I

IF C = 2 THEN

PRINT N; "IS PRIME NUMBER"

ELSE

PRINT N; "IS COMPOSITE NUMBER"

END IF

END
```

Generate series:

5 55 555 5555 55555

```
CLS
A = 5
FOR I = 1 TO 5
PRINT A,
A = A * 10 + 5
NEXT I
END
```

REM Program to find the greater number among two numbers

```
CLS

INPUT "Enter the first number: "; a

INPUT "Enter the second number: "; b

IF a > b THEN

PRINT a; " is greater than ";b

ELSE

PRINT b; " is greater than ";a

END IF

END
```

CLS

INPUT "ENTER ANY THREE NUMBERS"; A, B, C

IF A > B AND A > C

THEN

PRINT A; "IS GREATEST"

ELSEIF B > A AND B > C

THEN PRINT B; "IS GREATEST"

ELSE PRINT C; "IS GREATEST"

END IF END