

WORKSHEET 1

Q1/ Write an algorithm and draw a flowchart to read length in millimetre and convert to centimetre

```
S1=START
S2= READ MILLIMETRE
S3= CENTIMETER= MILLIMETRE/100
S4= PRINT SENTIMETER
S5= END
```

Q2/ Write an algorithm and draw a flowchart to read length of width and height and compute area and circumference (perimeter) of the rectangle.

```
S1=START
S2= READ L
S3= AREA=A*B
S4= PERIMETER=2 (A+B)
S5= PRINT PERIMETER, AREA
S6=END
```

Q3/Write an algorithm to read length of radios and compute area and circumference (perimeter) of circle.

```
S1=START
S2=READ L
S3= AREA= $\pi R^2$ 
S4=PERIMETER= $2\pi R$ 
S5= PRINT PERIMETER, AREA
S6= END
```

Q4/Write an algorithm and draw a flowchart that will calculate the roots of a quadratic equation: $ax^2 + bx + c = 0$ Hint: $d = \sqrt{b^2 - 4ac}$, and the roots are: $x_1 = (-b + d)/2a$ and $x_2 = (-b - d)/2a$

```
S1=START
S2= READ A, B, C
S3=  $D = \sqrt{(-B^2/A) - 2*A*(-B^2)}$ 
S4=  $D = \sqrt{(-B^2/A^2) + 2*A*B^2}$ 
S5=PRINT D
S6= END
```

Q5/write an algorithm to find the result of equation:

غير مسؤول عن صحة حل الأسئلة الموجودة في الملف , كما تعلمون دكتور المادة لم يحدد ما إن كانت اجوبتنا صحيحة في ال WORKSHEET ام لا لذلك انصحكم بتجربة الاجوبة واحداً تلو الآخر في الحاسوب لتعرفوا ما ان كان الناتج صحيح ام لا علما اني جربتها وظهرت ناتجاً صحيحاً...



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Q6/Write algorithm and draw a flowchart to read the cities of Iraq as numbers and print the estimation to refer to it. Hint: 1 Baghdad, 2 Basra, 3 Mosul, 4 Erbil

```
S1=START  
S2= READ CITIES OF IRAQ  
S3= IF 1 CITIES OF IRAQ PRINT 'BAGHDAD'  
S4= IF 2 CITIES OF IRAQ PRINT 'BASRAH'  
S5= IF 3 CITIES OF IRAQ PRINT 'MOSUL'  
S6= IF 4 CITIES OF IRAQ PRINT 'ERBIL'
```