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=πR²
S4=PERIMETER=2πR
S5= PRINT PERIMETER,AREA
S6= END
```

Q4/Write an algorithm and draw a flowchart that will calculate the roots of a quadratic equation: $ax2 + bx + c = 0$ Hint: d =√b 2 − 4ac, and the roots are: x1 = (-b + d)/2a and x2 = (-b - d)/2a

```
S1=START
S2= READ A,B,C
S3= D=√(-B²/A)- 2*A*(-B²)
S4= D=√(-B²/A²)+ 2*A*B²
S5=PRINT D
S6= END
```

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

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’
```