

## 1. Level: Easy

Start

Define variables: num1, num2, sum

Get num1 from the user

Get num2 from the user  $\text{sum} = \text{num1} + \text{num2}$

Print the sum

End

## 2. Level: Medium

Start

Define variable:  $\text{total} = 0$

For i from 1 to 100

$\text{total} = \text{total} + i$

End For

Print the total

End

### 3. Level: Advanced

Start

```
Define variable: number
Get the number from the user
If number <= 1 then
  Print "Not prime"
Else
  Define variable: isPrime = true
  For i from 2 to number - 1
    If number % i == 0 then
      isPrime = false
    Break
  End If
End For
If isPrime then
  Print "Prime"
Else
  Print "Not prime"
End If
End If
```

End

## 4. Level: Hard

Start

Define array: arr[]

Get the array elements from the user

Define a set: seen

Define a boolean variable: hasDuplicates = false

For each element in arr

    If element is in seen then

        hasDuplicates = true

Break

    Else

        Add element to seen

End If

End For

    If hasDuplicates then

        Print "Array has duplicates"

    Else

        Print "Array has no duplicates"

End If

End