Higher National Diploma in Computing	
Programming	
Name	Deloshan Kenthiramoorthy
Student ID No	1029979
Batch	24
Email ID	1029979@bcas.ac

Lab Sheet - 01

Table of Contents

Table of Figures

Question 01

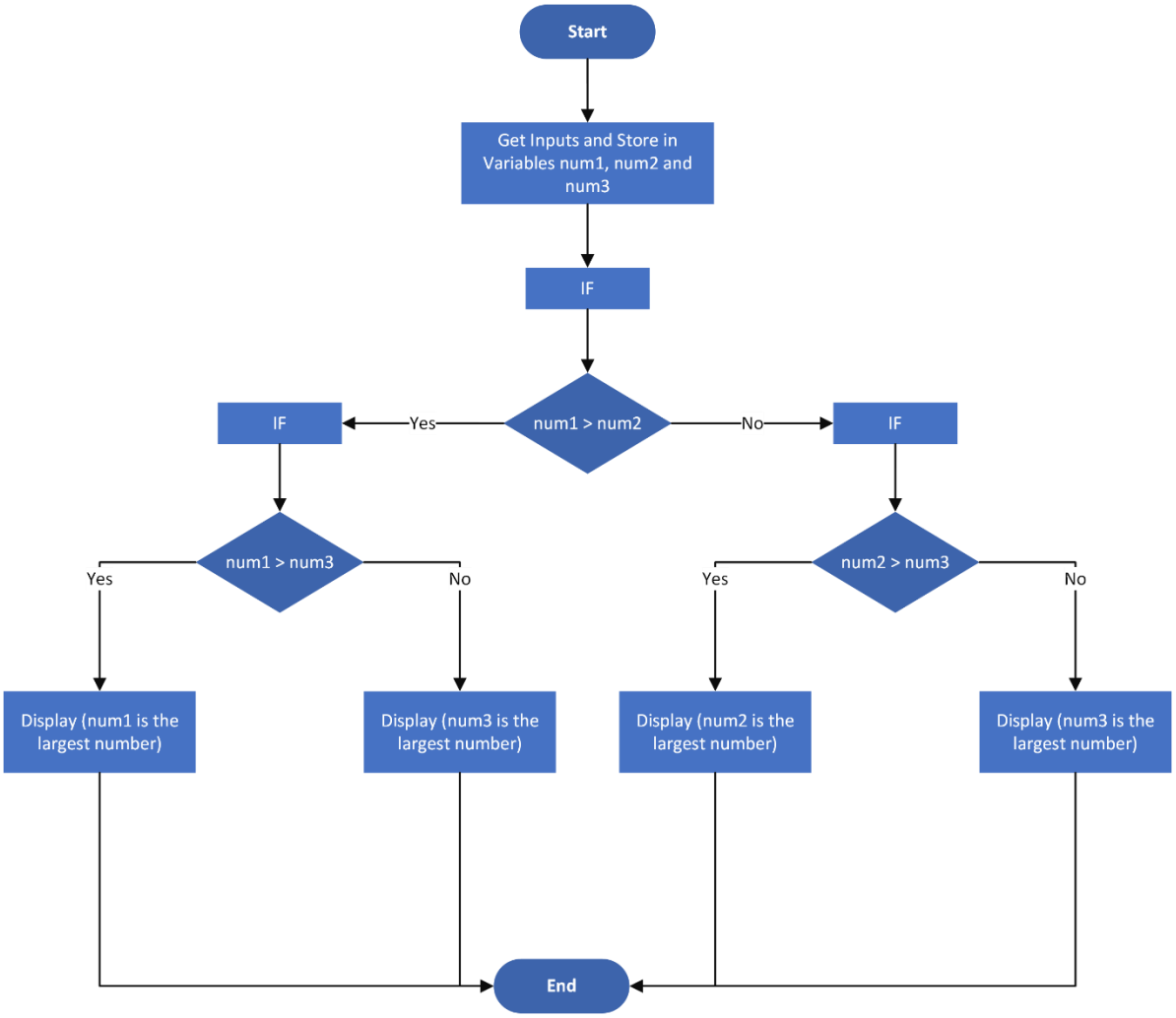

Figure 1 Finding Largest Number – Flowchart

Pseudo Code

```
num1 = input

num2 = input

num3 = input

if ( num1 > num2 ):
        if ( num1 > num3 ):
                print ( num1 is the largest number )
        else:
                print ( num3 is the largest number )
```

```
else:
        if ( num2 > num3 ):
                print ( num2 is the largest number )
        else:
                print ( num3 is the largest number )
```

Question 02

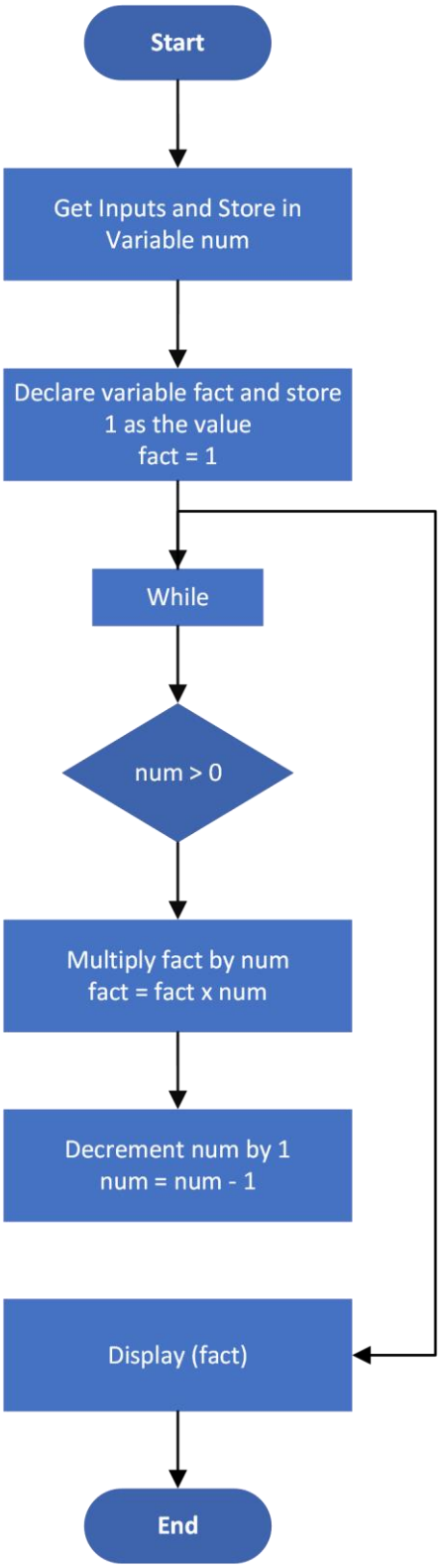

Figure 2 Finding Factorial – Flowchart

Pseudo Code

```
num = input

fact = 1

while num > 0:

        fact = fact x num

        num = num + 1

print (fact)
```

Question 03

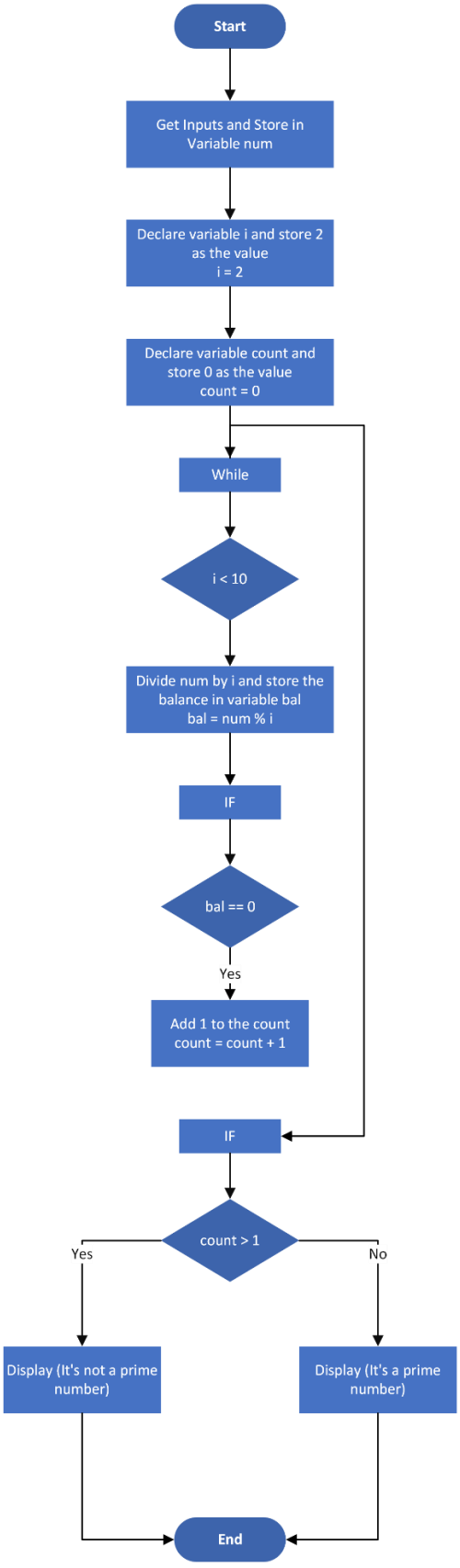

Figure 3 Finding the Prime Number – Flowchart

Pseudo Code

```
num = input
i = 2
count = 0
while i < 10:
        bal = num % i
        if bal == 0:
                count = count + 1
if count > 1:
        print (It's not a prime number)
else:
        print (It's a prime number)
```

Question 04

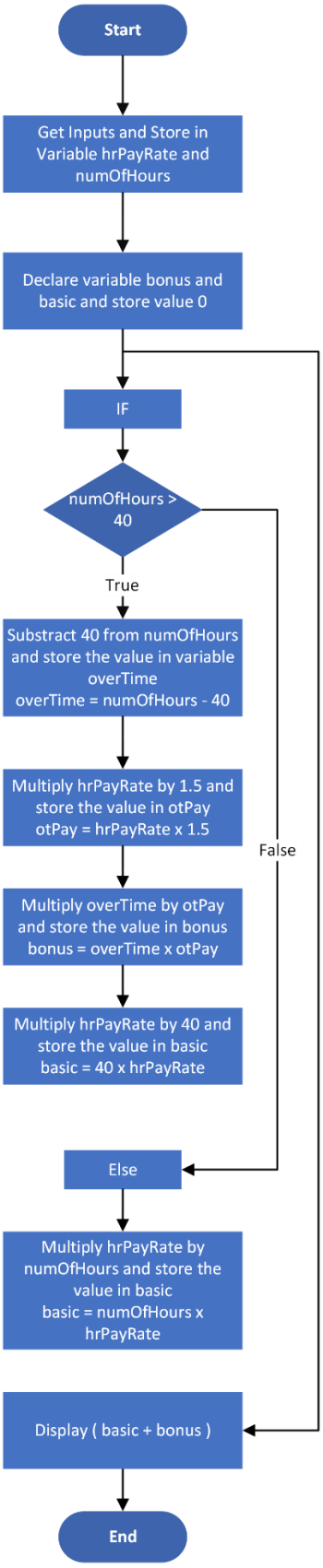

Figure 4 Finding Gross Salary – Flowchart

Pseudo Code

```
hrPayRate = input

numOfHour = input

bonus = 0

basic = 0

if numOfHour > 40:

        overTime = numOfHour – 40

        otPay = hrPayRate x 1.5

        bonus = otPay x overTime

        basic = 40 x hrPayRate

else:

        basic = numOfHour x hrPayRate

print (basic + bonus)
```

Question 05

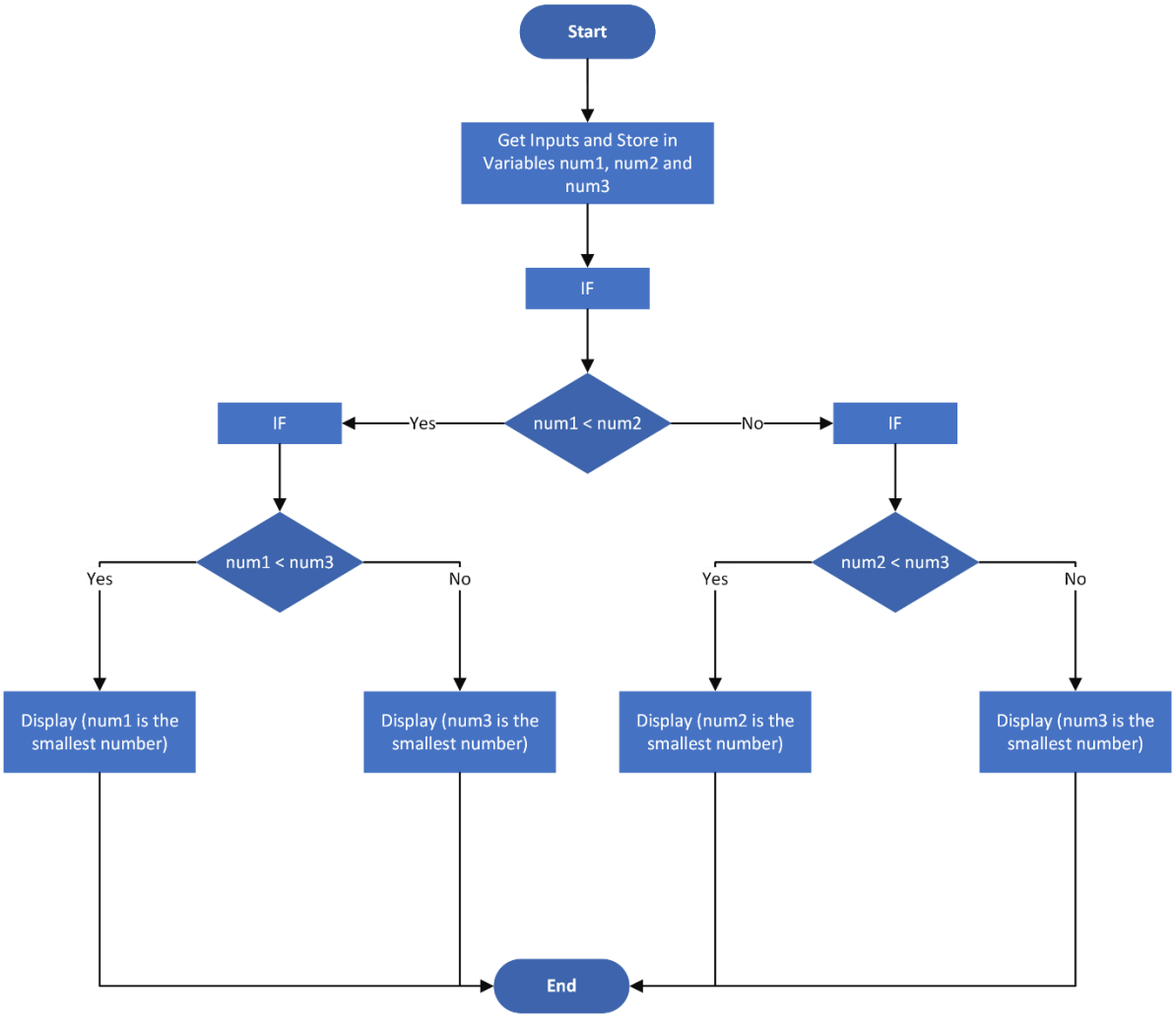

Figure 5 Finding the Smallest Number – Flowchart

Pseudo Code

```
num1 = input

num2 = input

num3 = input

if ( num1 < num2 ):
        if ( num1 < num3 ):
                print ( num1 is the smallest number )
        else:
                print ( num3 is the smallest number )
else:
```

```
if ( num2 < num3 ):
        print ( num2 is the smallest number )
else:
        print ( num3 is the smallest number )
```

Question 06

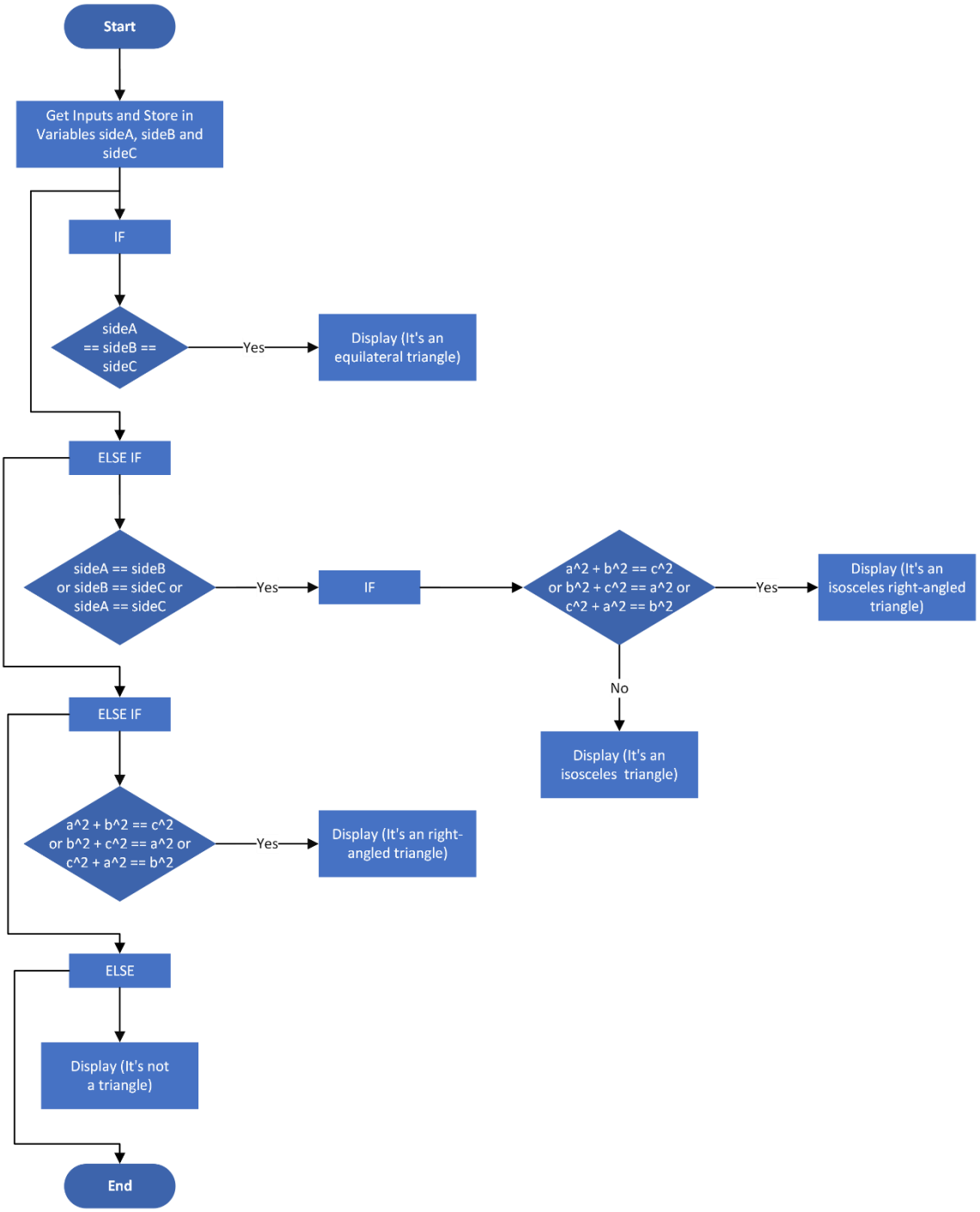

Figure 6 Finding the Triangle Type – Flowchart

Pseudo Code

sideA = input

sideB = input

```
sideC = input
if sideA == sideB == sideC:
    print (It's an equilateral triangle)
elseif sideA == sideB or sideB == sideC or sideA == sideC:
    if sideC x sideC = sideA x sideA + sideB x sideB or sideA x sideA = sideB x sideB + sideC x sideC or sideB x sideB = sideA x sideC + sideB x sideC:
        print (It's an isosceles right-angled triangle)
    else:
        print (It's an isosceles triangle)
elseif sideC x sideC = sideA x sideA + sideB x sideB or sideA x sideA = sideB x sideB + sideC x sideC or sideB x sideB = sideA x sideC + sideB x sideC:
    print (It's a right-angled triangle)
else:
    print (It's not a triangle)
```

Question 07

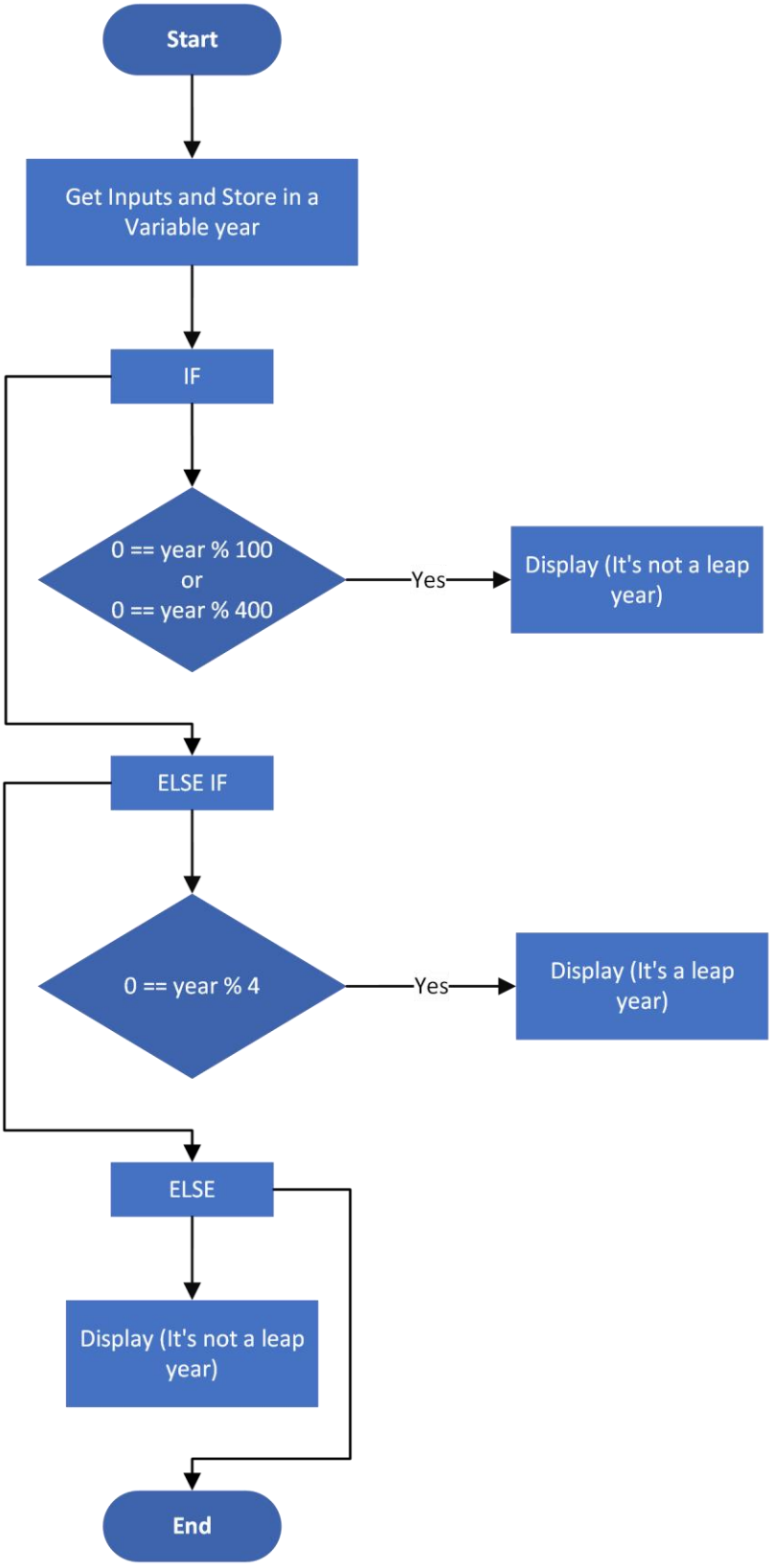

Figure 7 Find the Leap Year – Flowchart

Pseudo Code

```
year = input
if 0 == year % 100 or 0 == year % 400:
        print (It's not a leap year)
elseif 0 == year % 4:
        print (It's a leap year)
else:
        print (It's not a leap year)
```