



**Academic Year 2018 -19**

**Revision Worksheet - Computing**

**Name:**

**Year/Section: 7....**

**ANSWER THE FOLLOWING QUESTIONS**

a. What is computational thinking?

.....  
.....

b. What is decomposition?

.....  
.....

c. What is a spam?

.....  
.....

d. What are the techniques of computational thinking?

.....  
.....  
.....

e. What is an algorithm and what are the control structures used in an algorithm?

.....  
.....  
.....  
.....

f. What is a flowchart?

.....  
.....

g. Write down the 5 main symbols used in a flowchart and its description.

.....  
.....  
.....  
.....  
.....

h. What is pattern? Write an example

.....  
.....  
.....

**I. FIND OUT THE OUTPUT OF BELOW PROGRAMS**

**i. Find out the sum and average of even numbers from 2 to 10**

Step 1: Start

Step 2: Initialize sum = 0 and count = 0

Step 3: print("Enter an even number n:")

Step 4: sum = sum + n

Step 5: count = count + 1

Step 6: Is (count < 10)

Step 7: if YES go to step 3

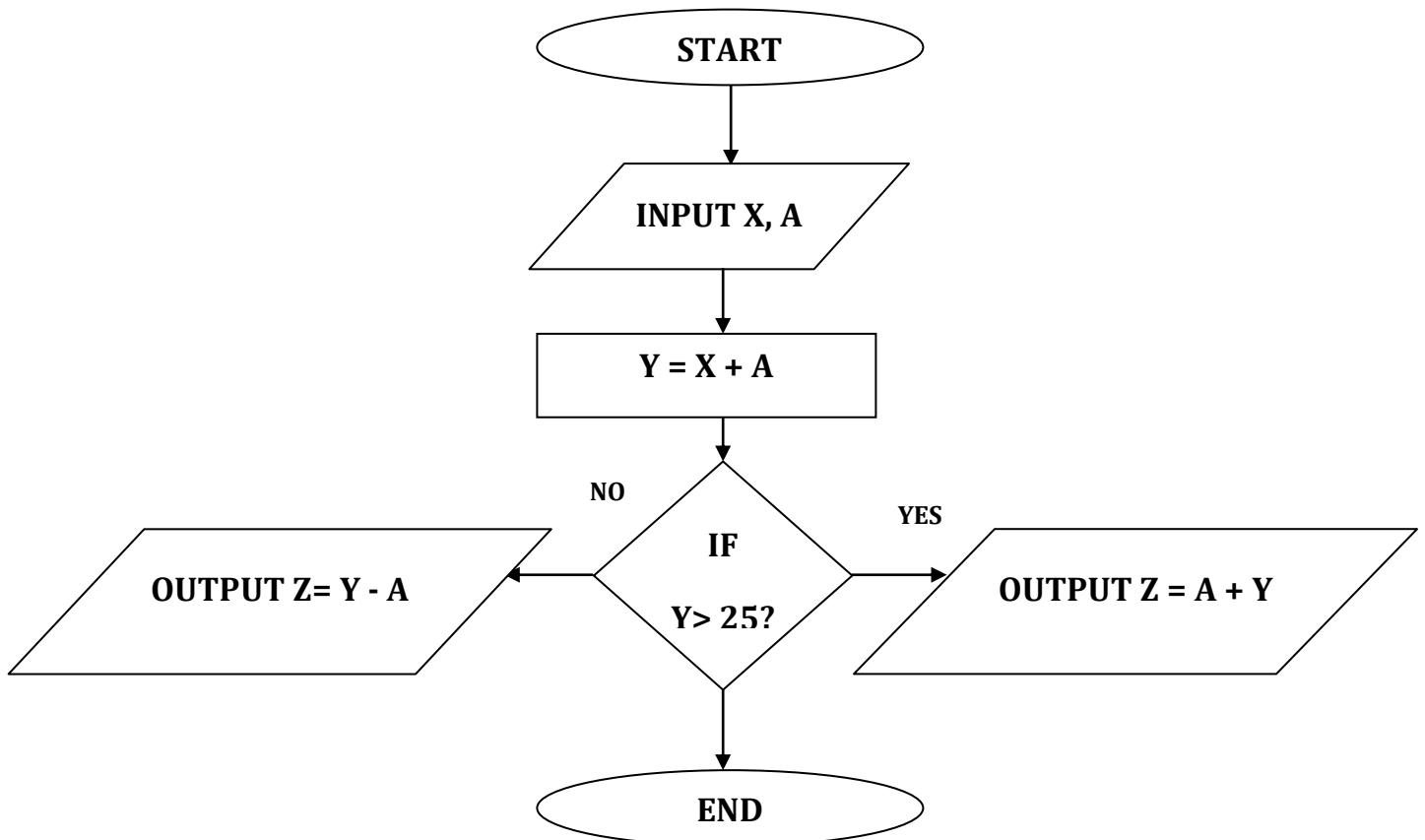
Step 8: else Average = sum/count

Step 9: print("The sum is:", sum)

Step 10: print("The average is:", average)

OUTPUT

ii. Study the flowchart carefully. Complete the below table and calculate the value of Y and Z for the given 2 input.



## **OUTPUT**

iii. The following program shows the Python code to find out the area of rectangle.

Calculate the area for the given input.

```
l= input(" Enter the length:")
```

```
b= input("Enter the breadth:")
```

```
area = l*b
```

```
print("The Area of rectangle is:", area)
```

## **OUTPUT**

L = 20, 30

B = 5, 8

**I. i. Algorithm to print a statement 5 times**

**(5 marks)**

**Find out the correct sequence and rewrite the below algorithm.**

Step 1: Start

Step 2: Initialize count = 0

Step 3: else step 8

Step 4: Count = Count + 1

Step 5: if(count <5)

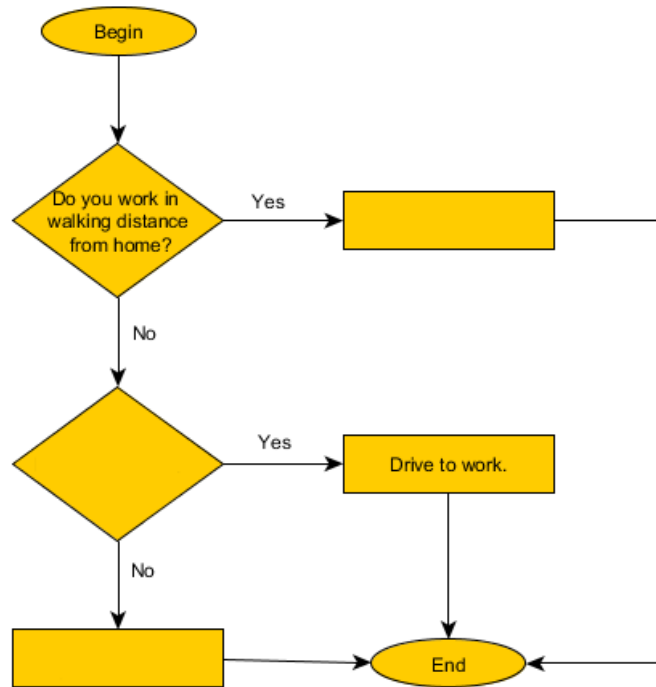
Step 6: Stop

Step 7: print("Algorithm using Repetition Structure")

Step 8: Go to step 3

**Algorithm**

ii. Complete the below flow chart. Mode of transport to work.



iii. Complete the Python code to read two numbers as input and find the sum, Difference and product and print the results appropriately.

```
// Variable declaration - Use datatype float
```

```
PI = 3.14
```

```
r = float(input(_____))
```

```
//Calculate the area
```

```
area = ____ * r * r
```

```
//Print the result
```

```
print("Area of the circle is : %.2f" %area)
```

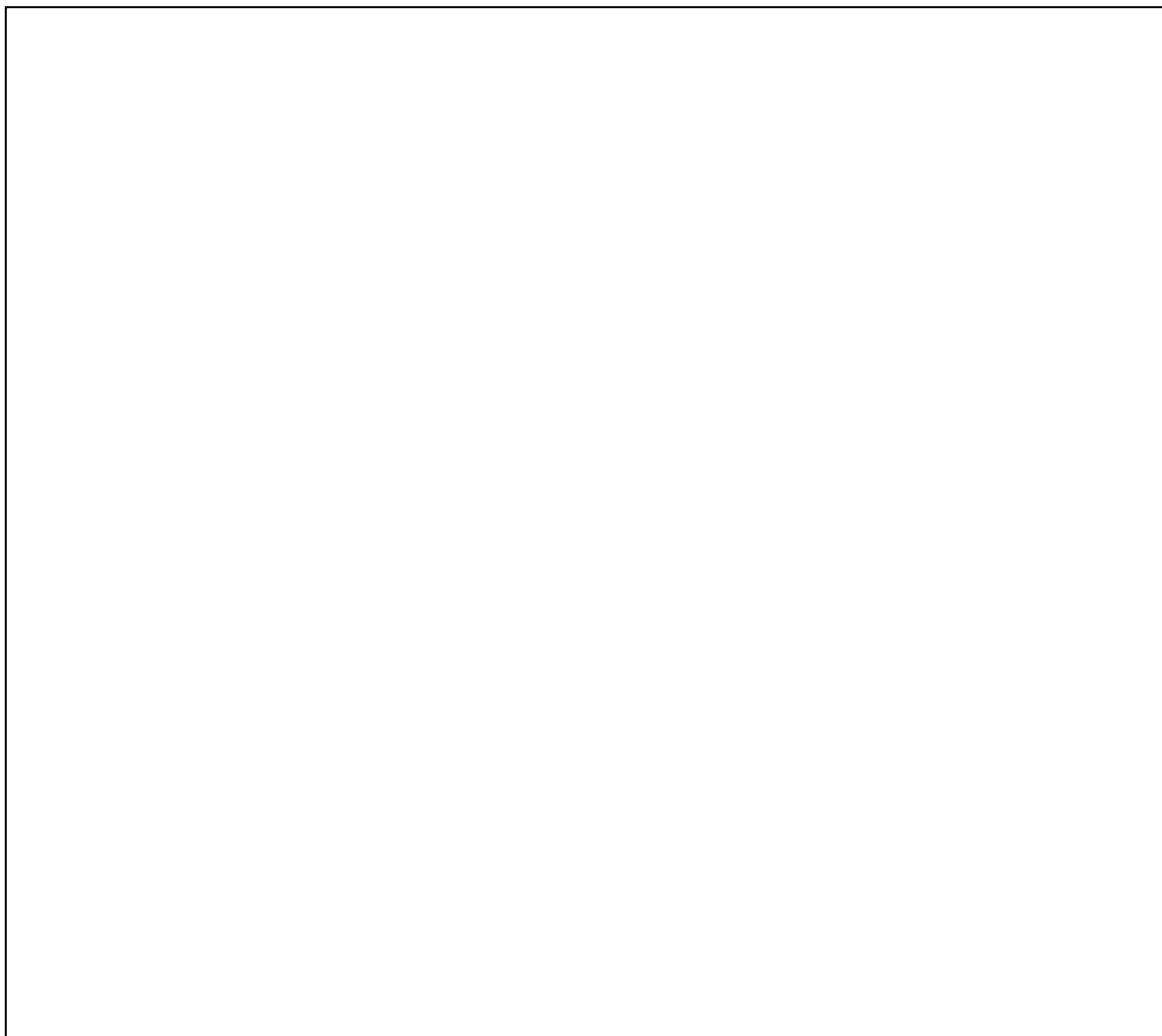
**iv. i. Find out the errors in the below Python program. Correct the errors and rewrite the program.**

**// Variable declaration**

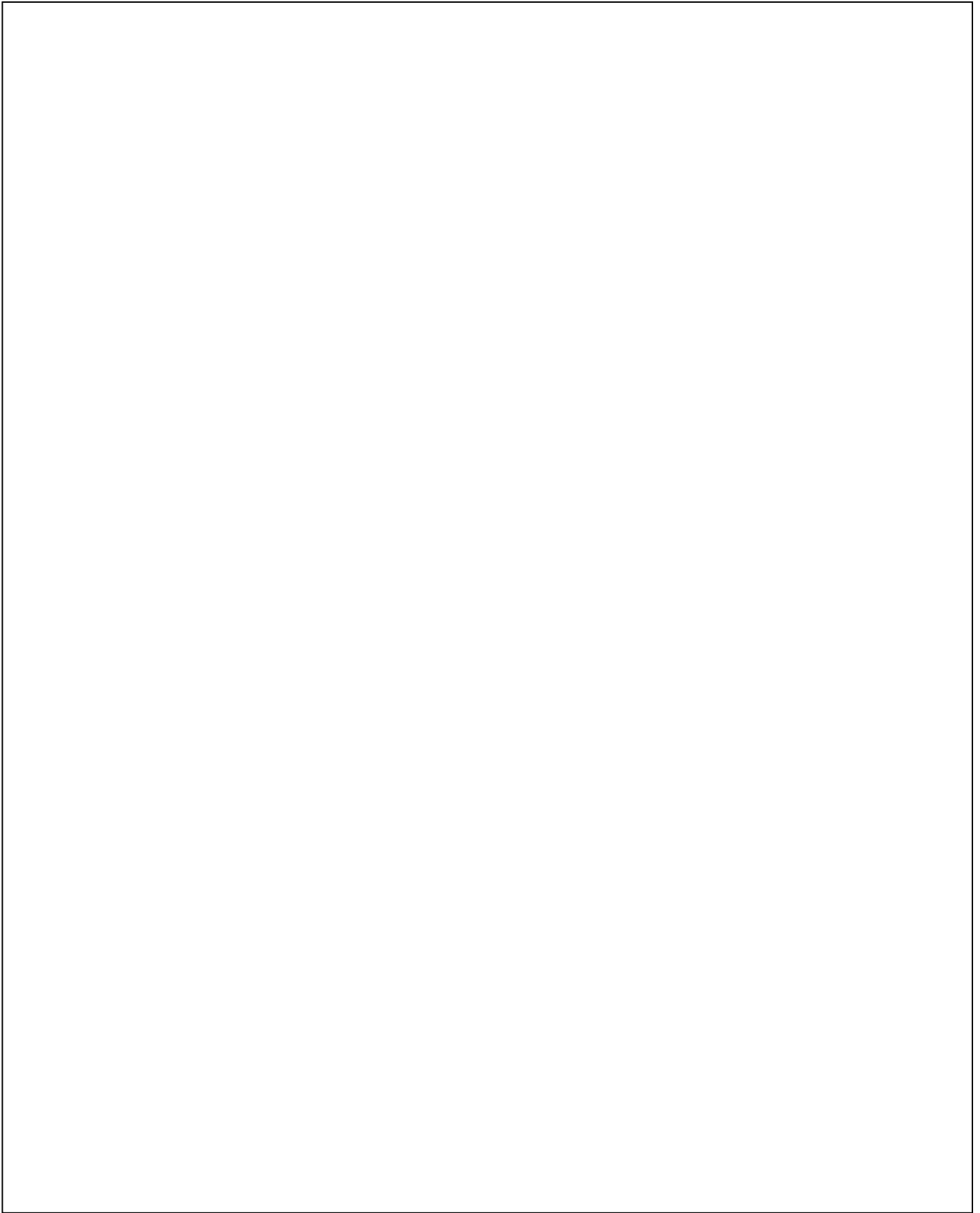
```
a= int("Enter the value of X:")  
b=input("Enter the value of Y:")
```

**//If.....else structure**

```
If int(a) > (b):  
    Pri("X is greater than Y")  
Else:  
    Print(Y is greater than X")
```



**ii. Create a flow chart to find out whether the given shape is a square or rectangle.**

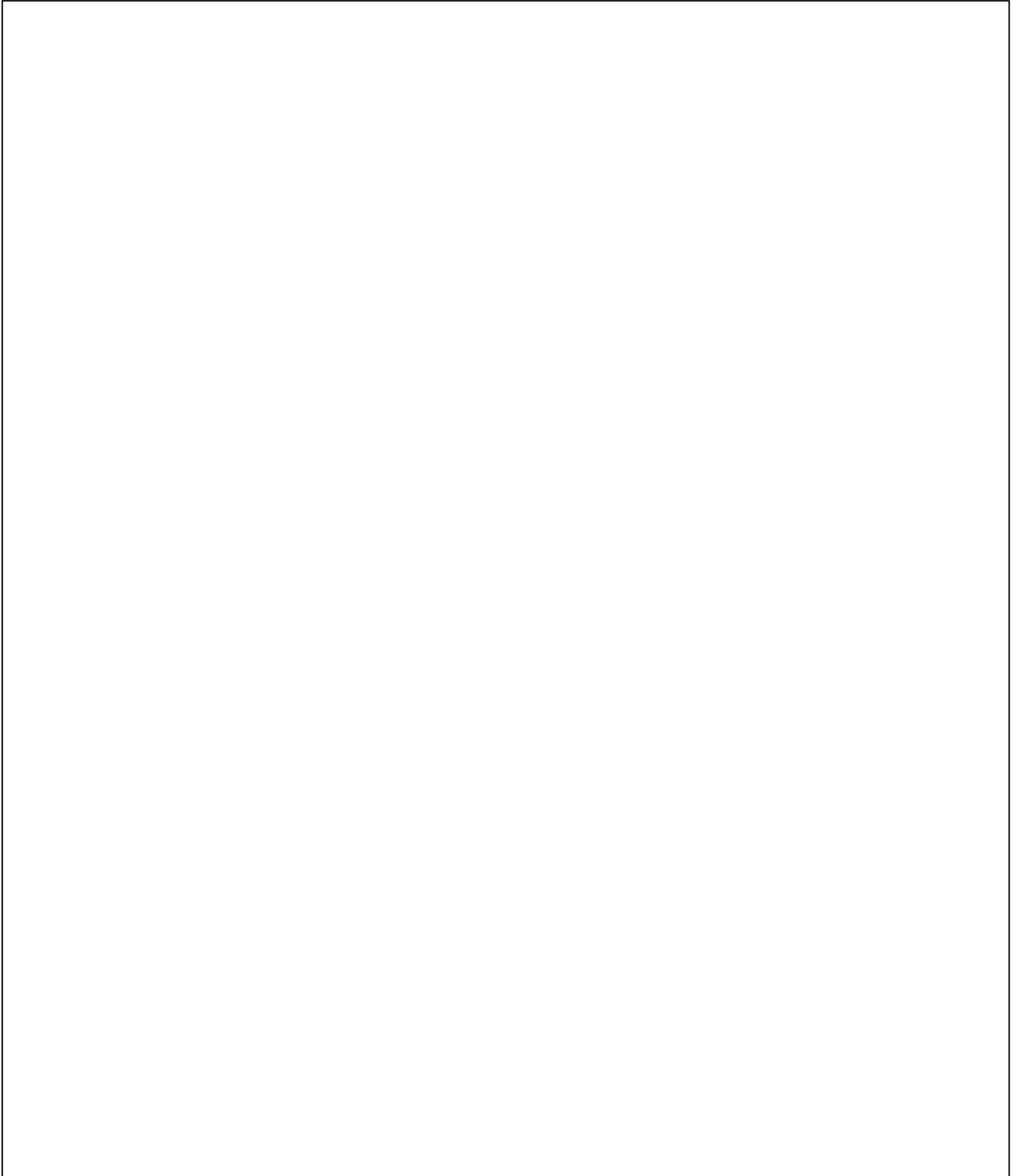
A large, empty rectangular box with a thin black border, intended for the student to draw a flowchart. The box occupies most of the page below the instruction.



**iii. Write an algorithm to get an email id as input and send email if it is Gmail or print invalid mail id.**

**iv. Write a Python code to read 4 numbers as input and add them.**

**v. Create a flowchart to “make a call to a friend”**

A large, empty rectangular box with a thin black border, intended for the student to draw a flowchart. The box occupies most of the page's vertical space below the instruction.