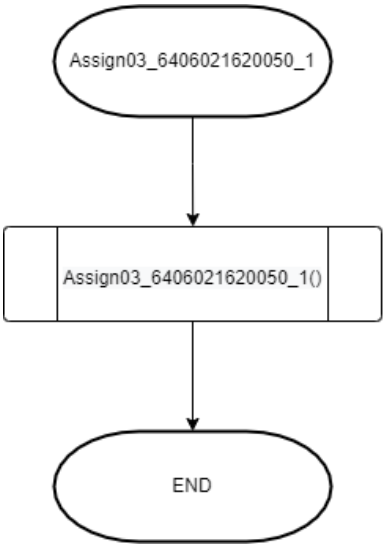
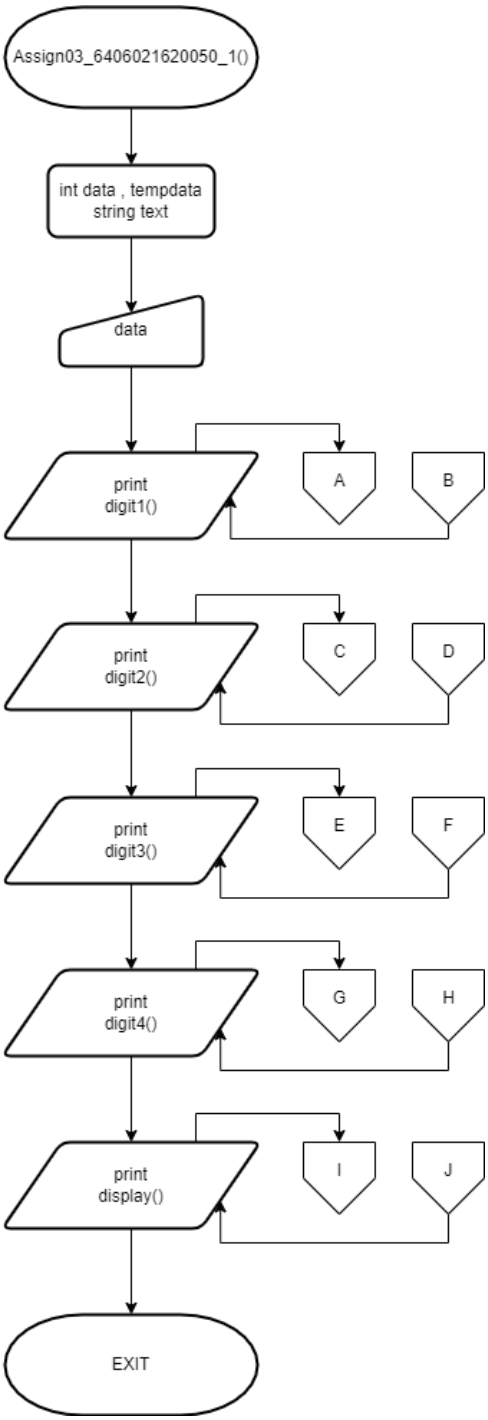
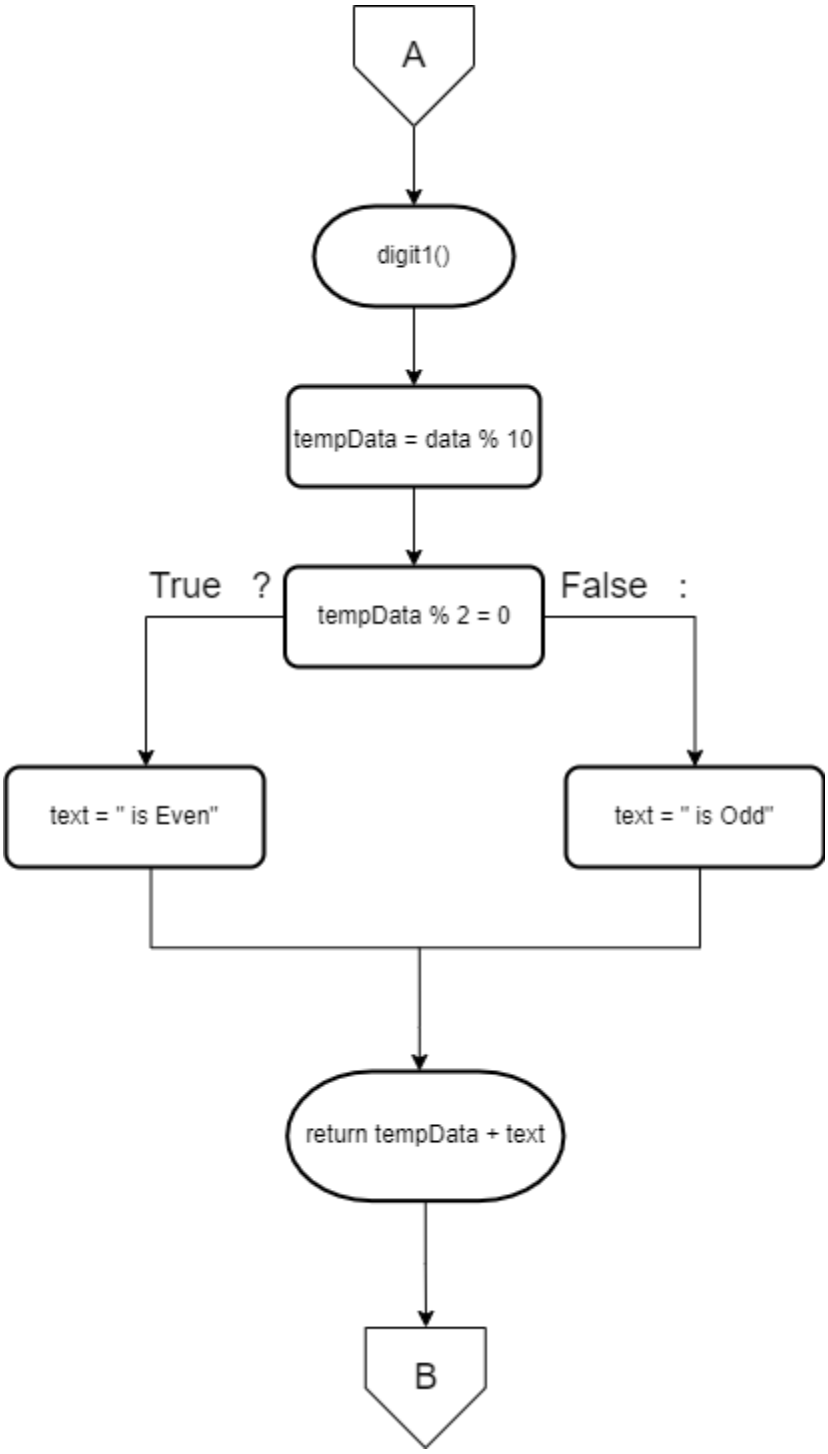
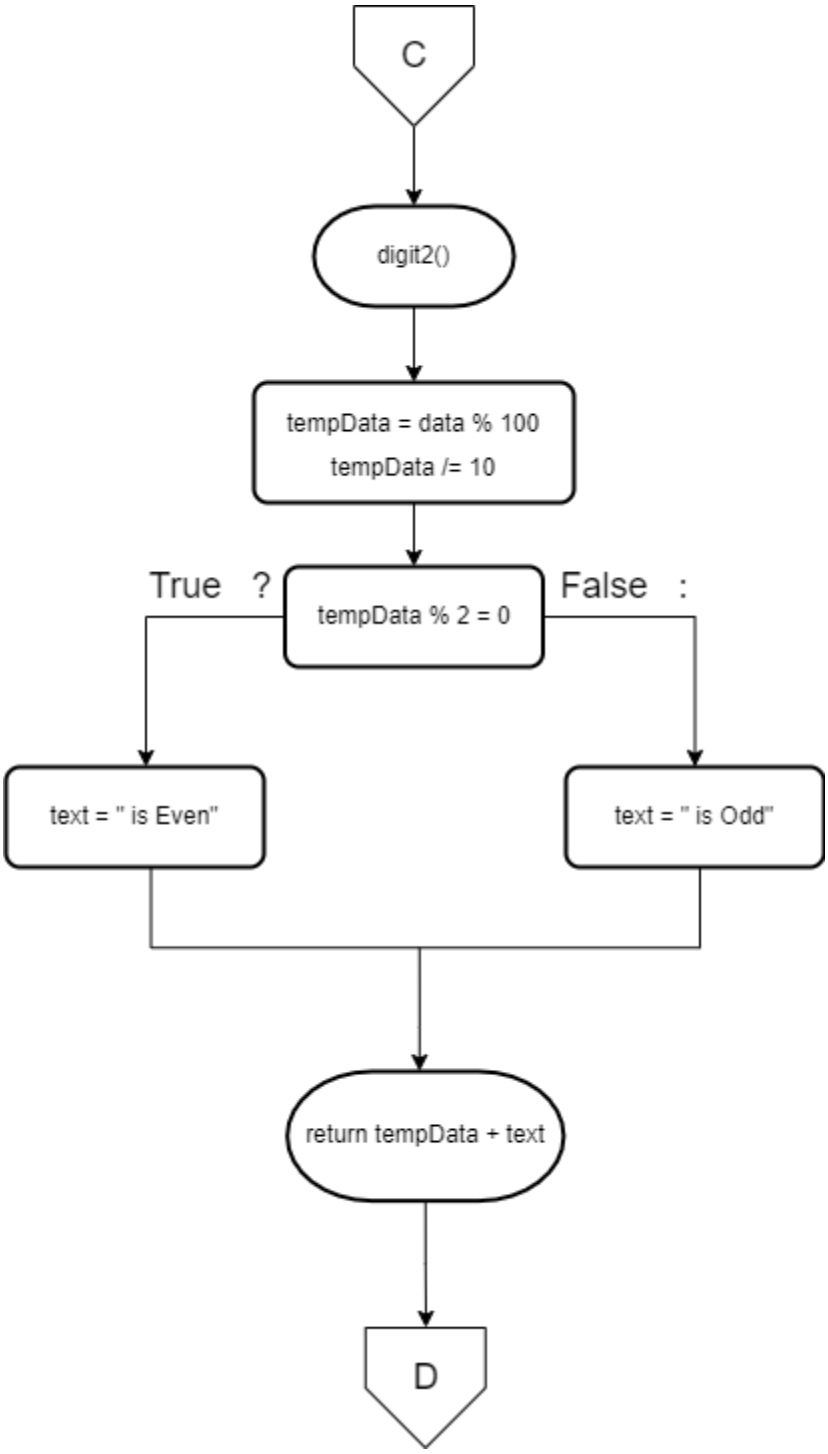
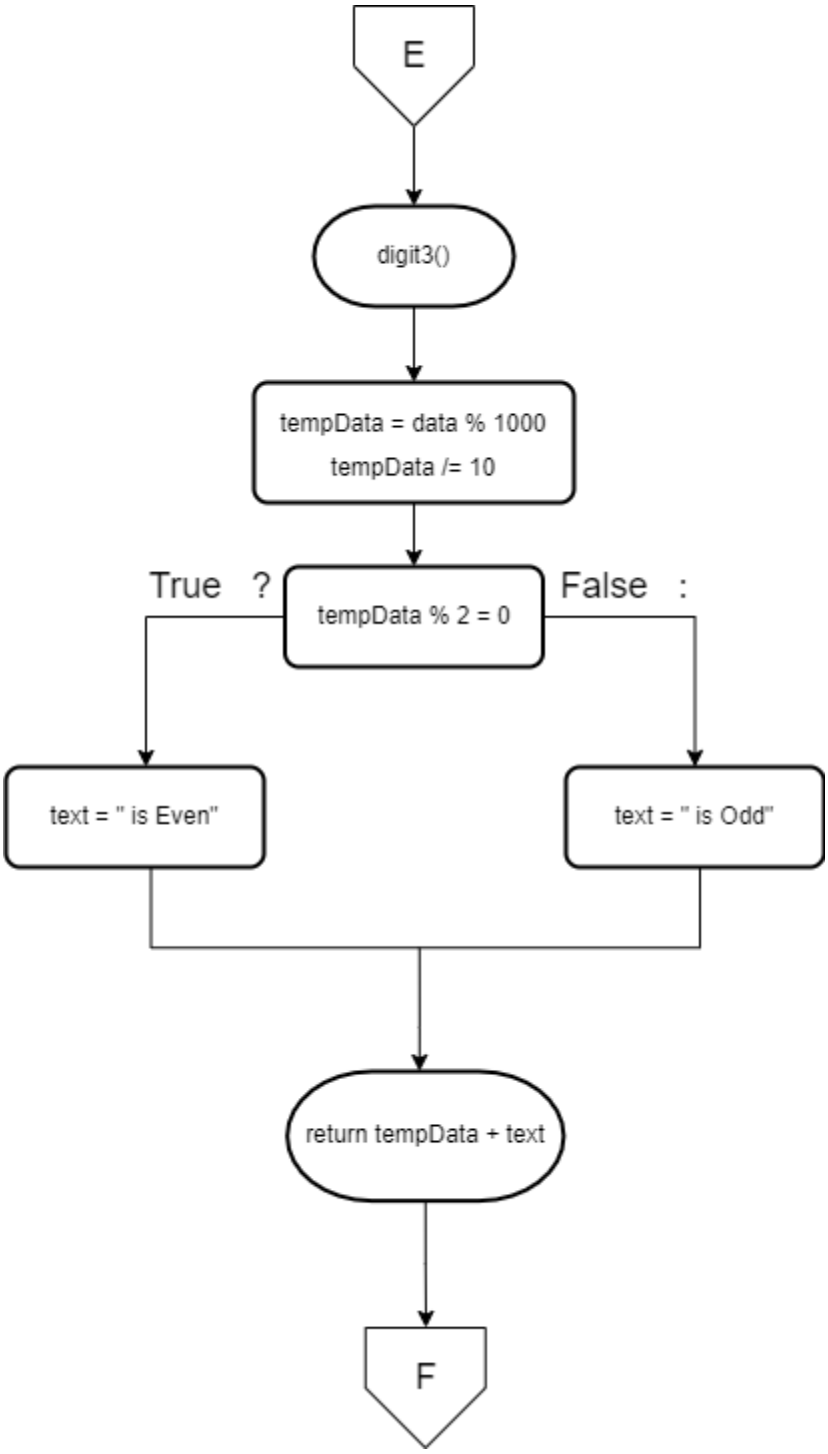
Assign03_6406021620050_1

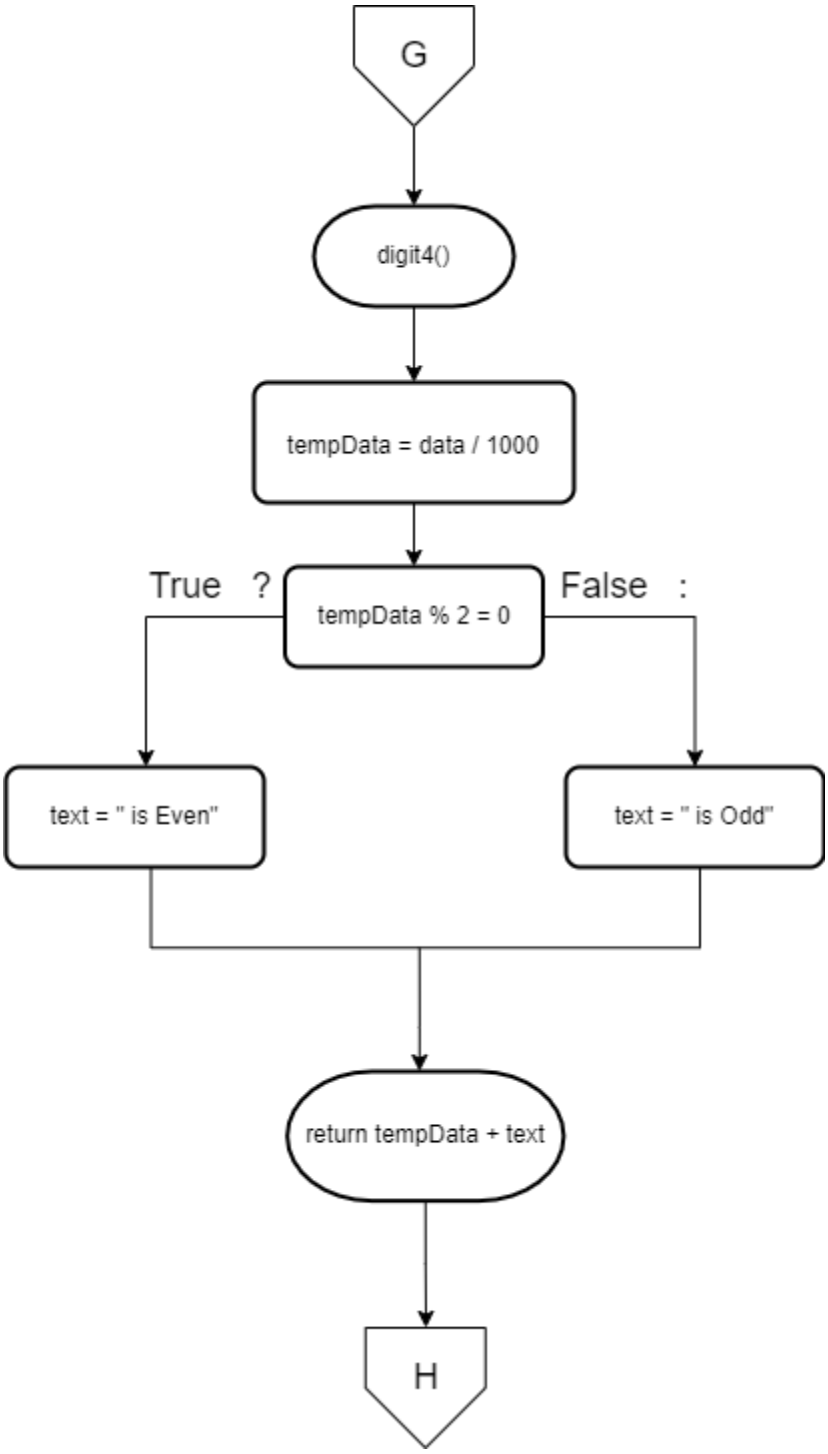


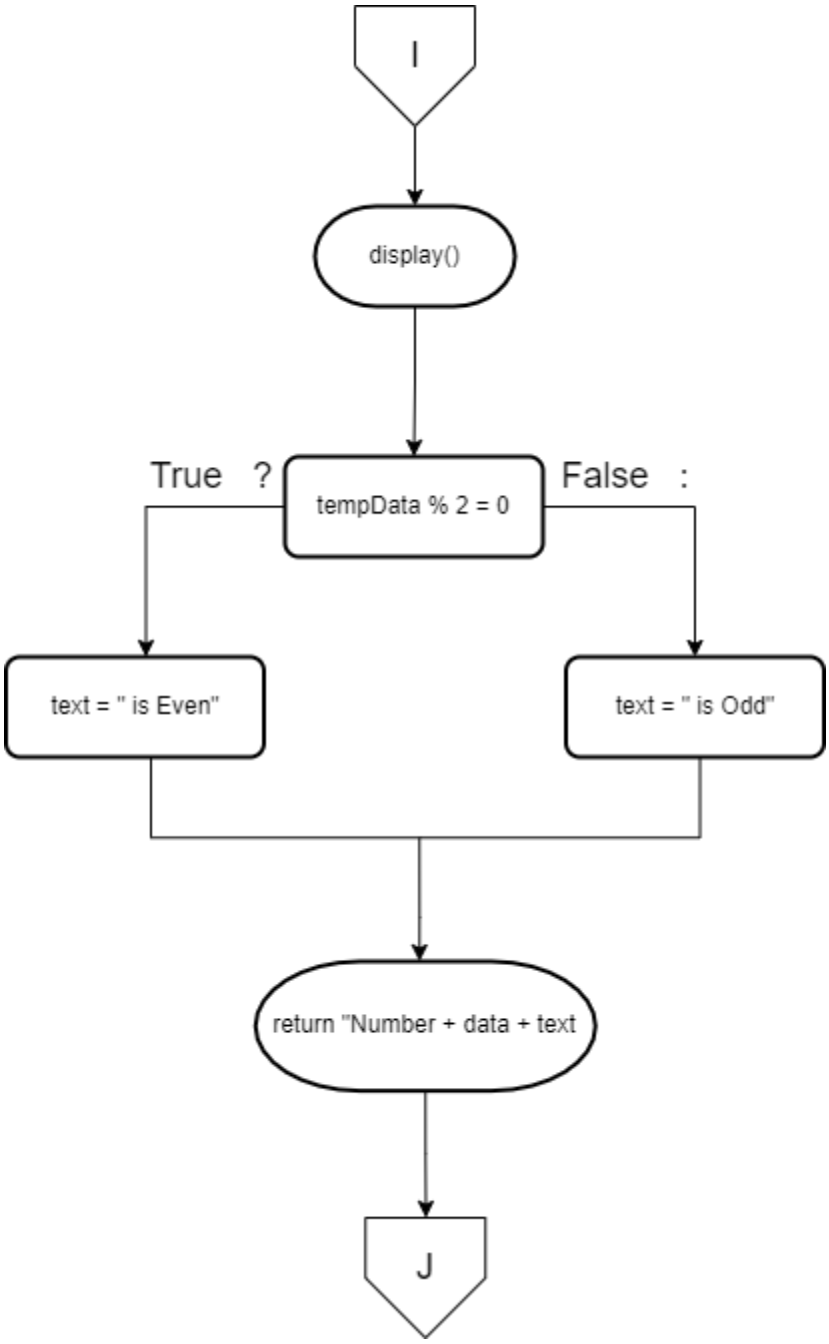

Assign03_6406021620050_1()
int data , tempdata
string text
data
print
digit1()
A
B
print
digit2()
C
D
print
digit3()
E
F
print
digit4()
G
H
print
display()
I
J
EXIT


A
digit1()
tempData = data % 10
True ?
tempData % 2 = 0
False :
text = " is Even"
text = " is Odd"
return tempData + text
B


C
digit2()
tempData = data % 100
tempData /= 10
True ?
tempData % 2 = 0
False :
text = " is Even"
text = " is Odd"
return tempData + text
D

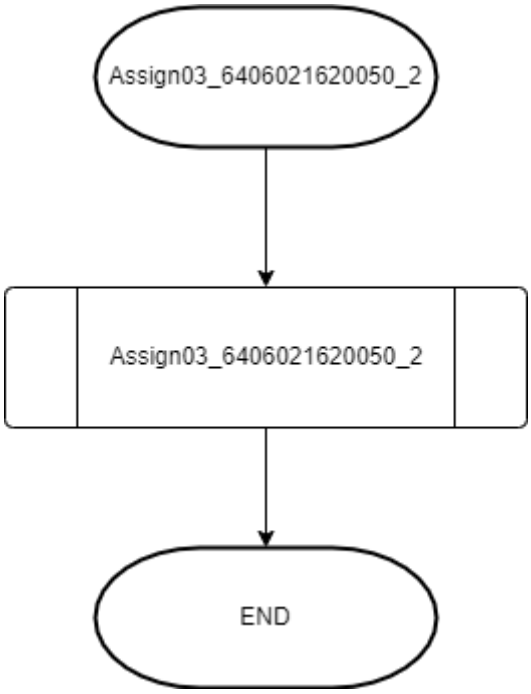

E
digit3()
tempData = data % 1000
tempData /= 10
True ?
tempData % 2 = 0
False :
text = " is Even"
text = " is Odd"
return tempData + text
F

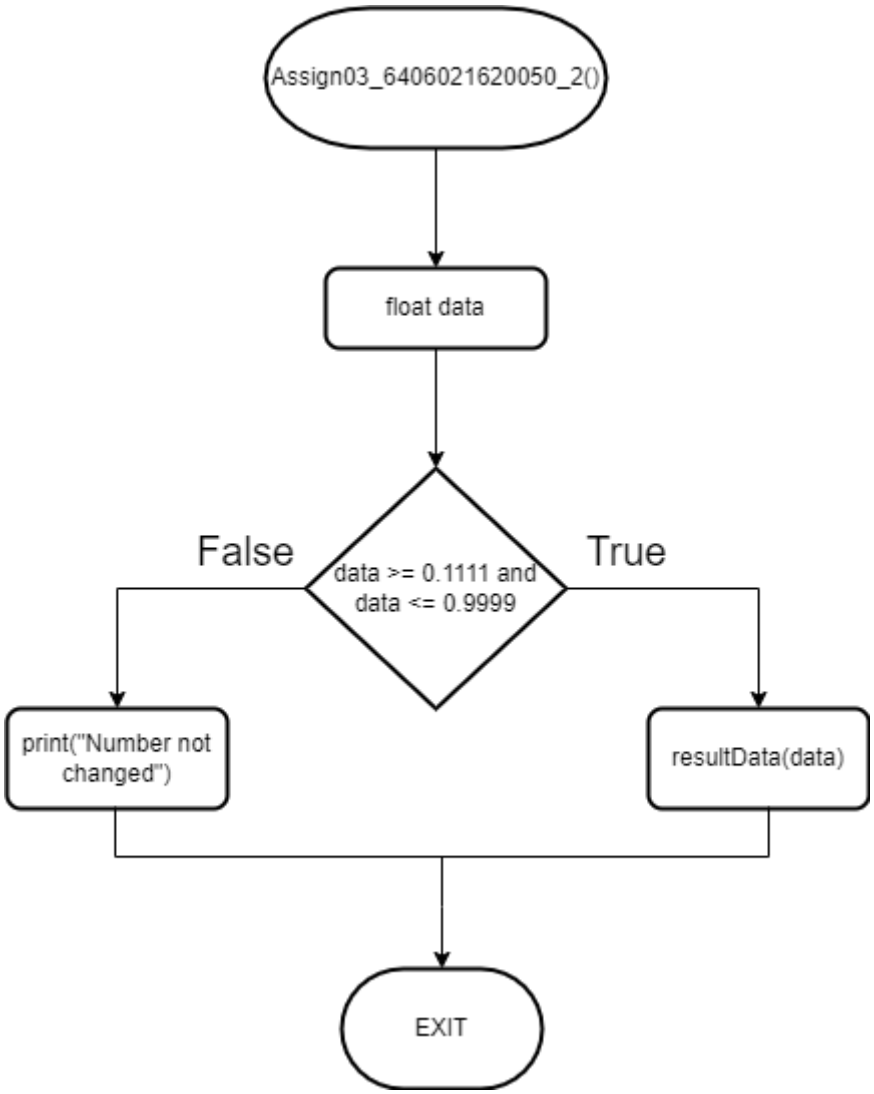

G
digit4()
tempData = data / 1000
True ?
tempData % 2 = 0
False :
text = " is Even"
text = " is Odd"
return tempData + text
H

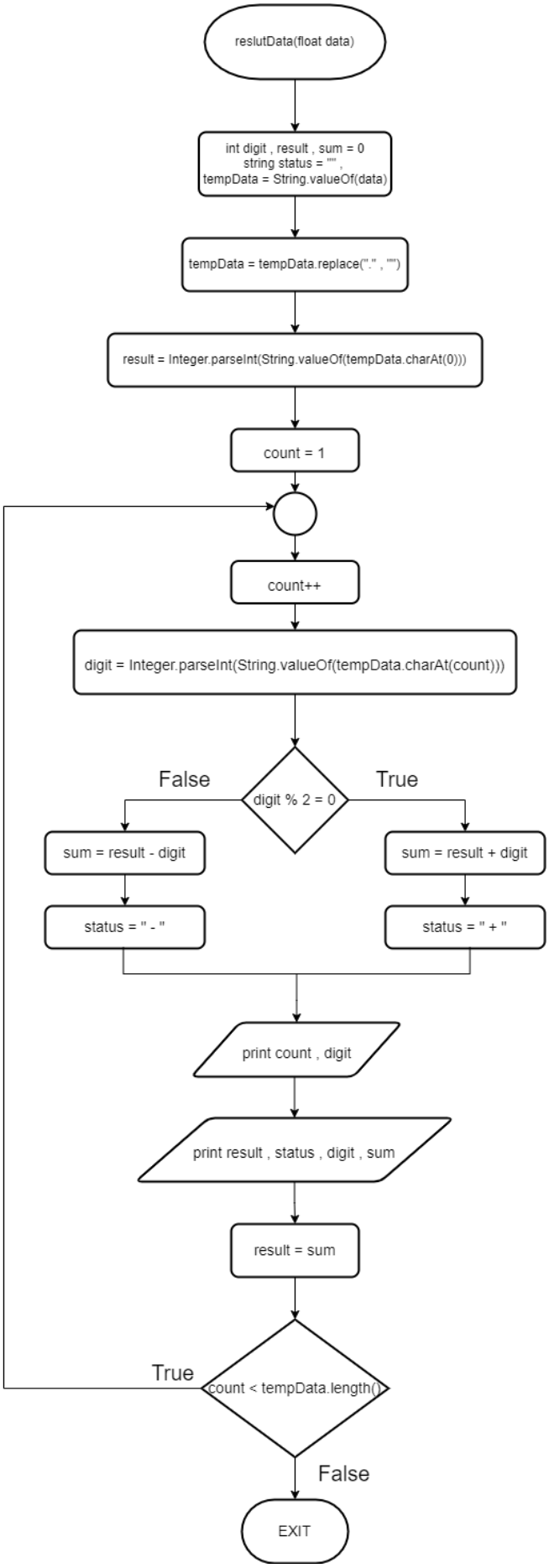

I
display()
True ?
tempData % 2 = 0
False :
text = " is Even"
text = " is Odd"
return "Number + data + text
J

Result Assign03_6406021620050_1

Assign03_6406021620050_2



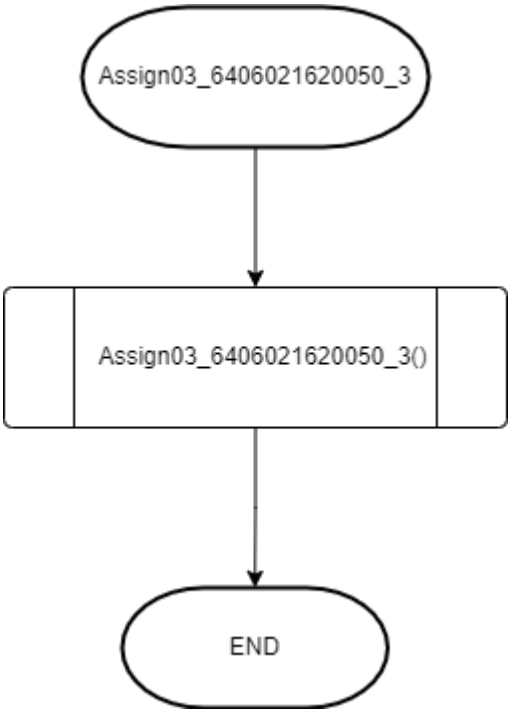

Assign03_6406021620050_2()
float data
False
data >= 0.1111 and
data <= 0.9999
True
print("Number not
changed")
resultData(data)
EXIT

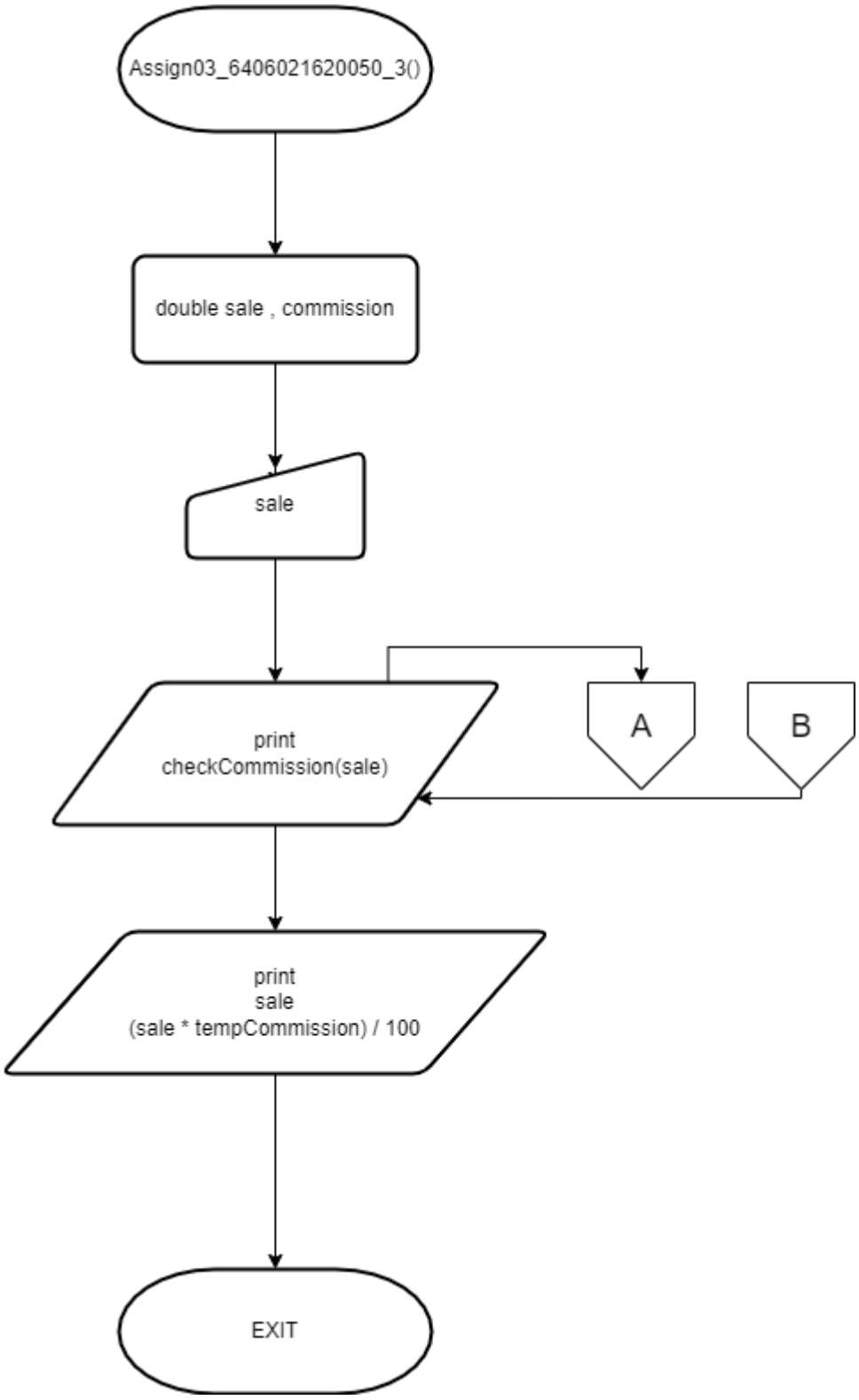

reslutData(float data)
int digit , result , sum = 0
string status = "" ,
tempData = String.valueOf(data)
tempData = tempData.replace("." , "")
result = Integer.parseInt(String.valueOf(tempData.charAt(0)))
count = 1
count++
digit = Integer.parseInt(String.valueOf(tempData.charAt(count)))
digit % 2 = 0
False
True
sum = result - digit
status = " - "
sum = result + digit
status = " + "
print count , digit
print result , status , digit , sum
result = sum
count < tempData.length()
True
False
EXIT

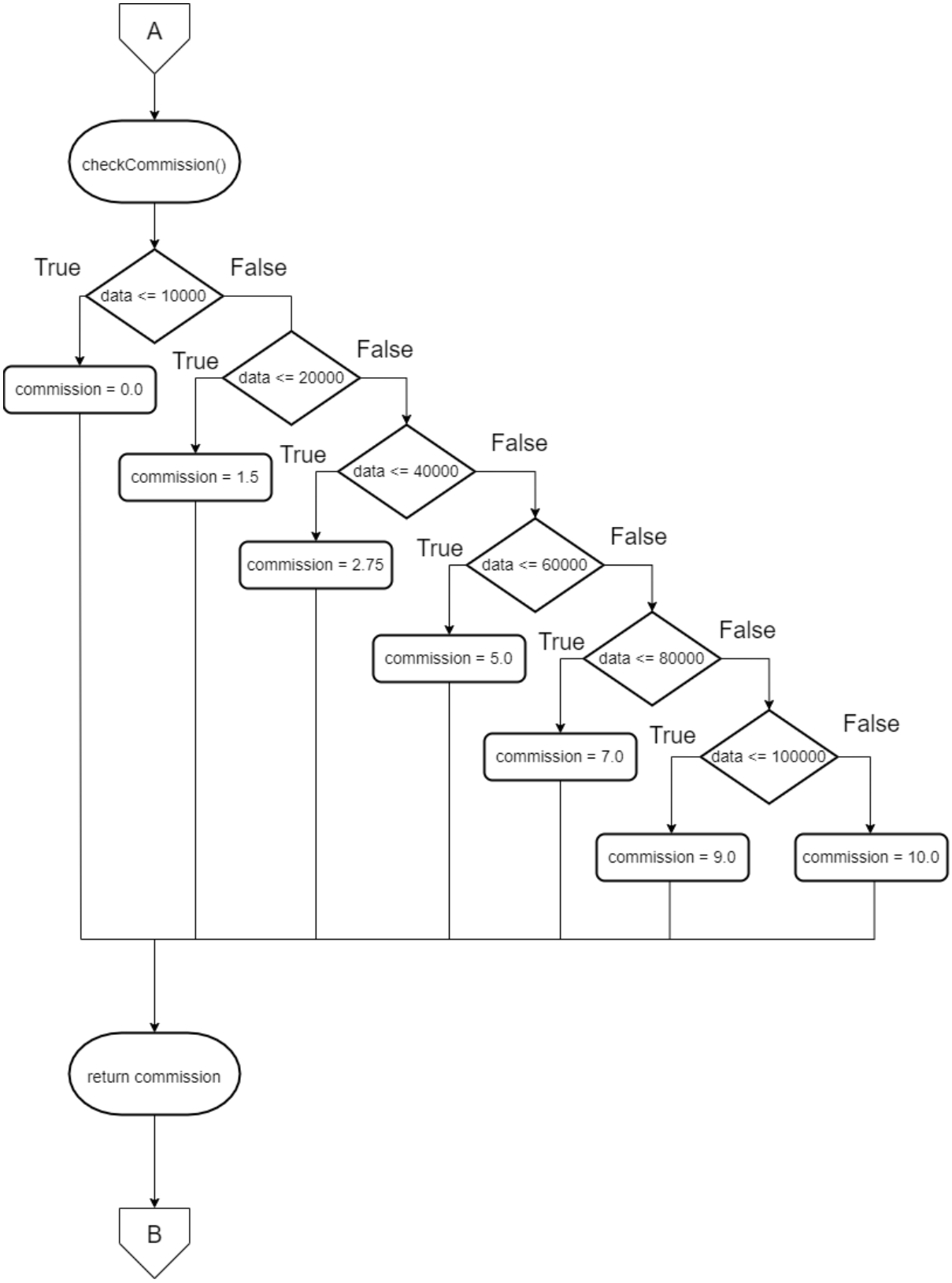
Result Assign03_6406021620050_2

```
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_2'
Enter floating-point number : 0.2738
Integer number 1 = 2
Sum = 0 + 2 = 2
Integer number 2 = 7
Sum = 2 - 7 = -5
Integer number 3 = 3
Sum = -5 - 3 = -8
Integer number 4 = 8
Sum = -8 + 8 = 0
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>
```

Assign03_6406021620050_3



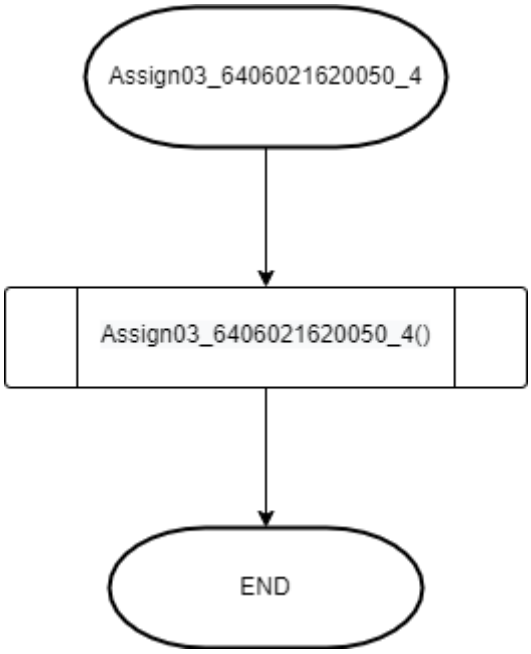

Assign03_6406021620050_3()
double sale , commission
sale
print
checkCommission(sale)
A
B
print
sale
(sale * tempCommission) / 100
EXIT

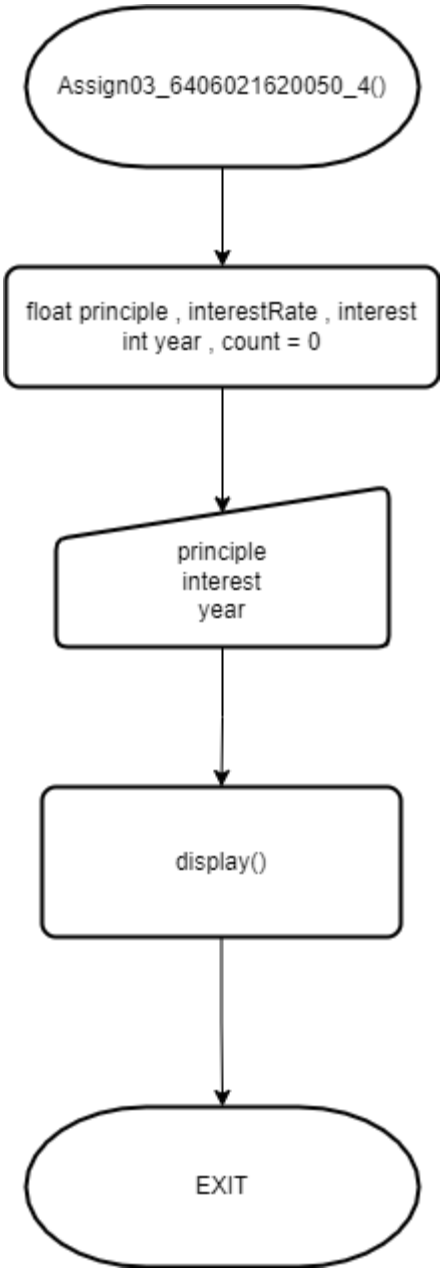

A
checkCommission()
True
data <= 10000
False
commission = 0.0
True
data <= 20000
False
commission = 1.5
True
data <= 40000
False
commission = 2.75
True
data <= 60000
False
commission = 5.0
True
data <= 80000
False
commission = 7.0
True
data <= 100000
False
commission = 9.0
commission = 10.0
return commission
B

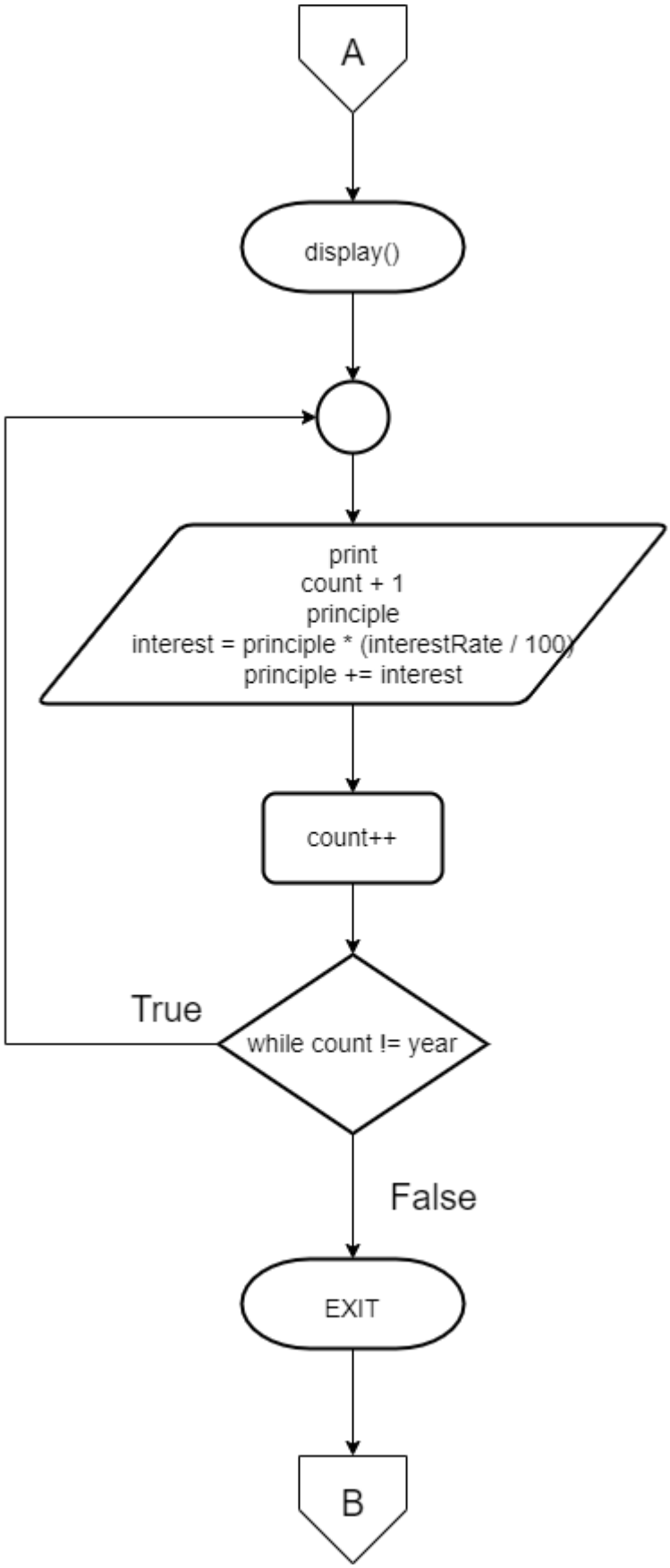
Result Assign03_6406021620050_3

```
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_3'
Enter sale amount : 1000000
You got rate = 10.0%
Your sale 1000000, Commission = 100000
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>
```

Assign03_6406021620050_4



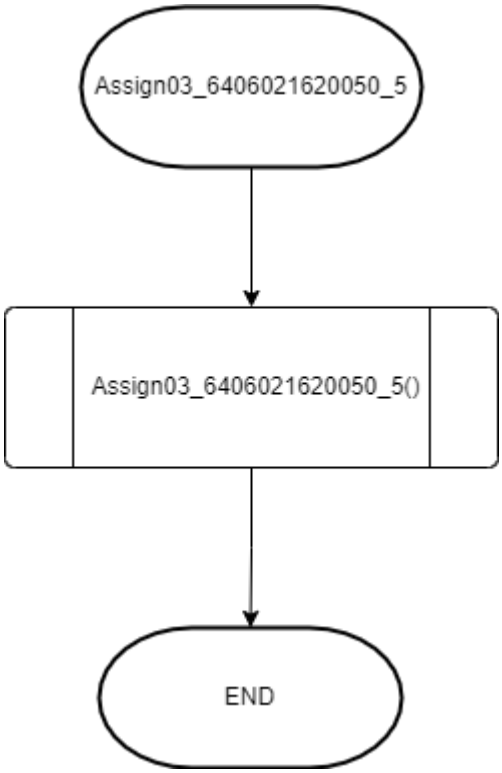

Assign03_6406021620050_4()
float principle , interestRate , interest
int year , count = 0
principle
interest
year
display()
EXIT

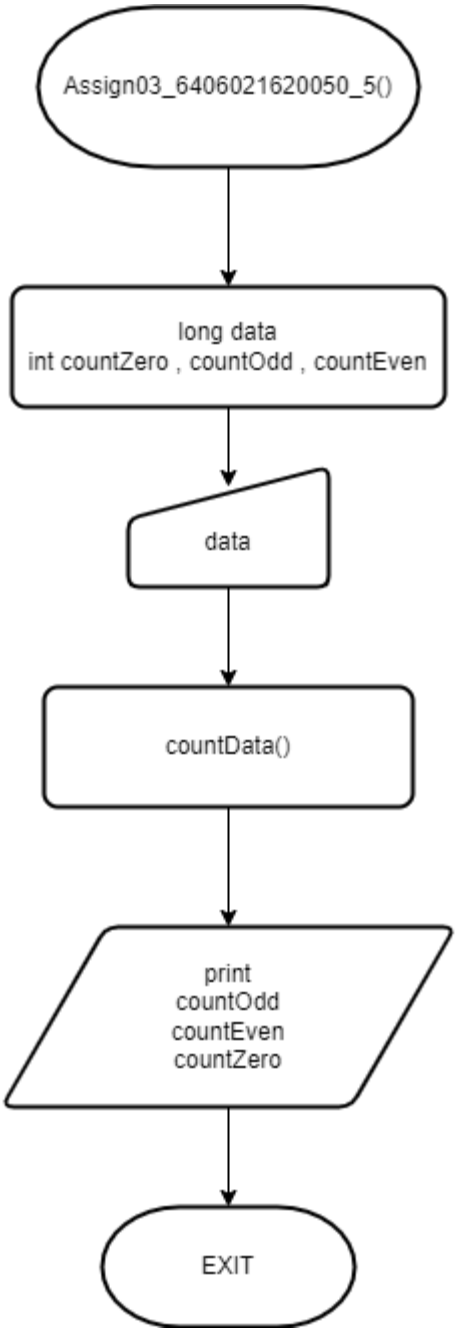

A
display()
print
count + 1
principle
interest = principle * (interestRate / 100)
principle += interest
count++
True
while count != year
False
EXIT
B

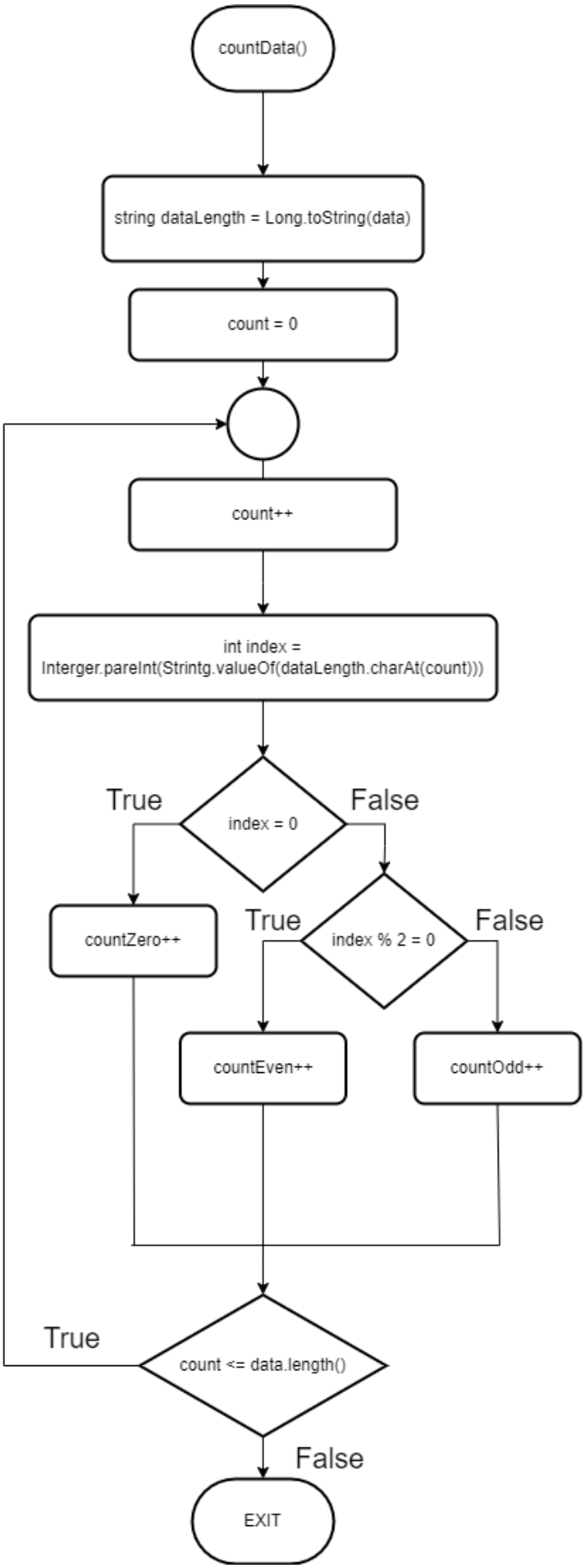
Result Assign03_6406021620050_4

```
e' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\
bin' 'Assign03_6406021620050_4'
Program Calculate Money
++++++++++++++++++++++
Enter principle : 100
Enter interest rate : 10
Enter year : 10

Year  Principle   Interest      Total
=====================================
  1   100.00      10.00         110.00
  2   110.00      11.00         121.00
  3   121.00      12.10         133.10
  4   133.10      13.31         146.41
  5   146.41      14.64         161.05
  6   161.05      16.11         177.16
  7   177.16      17.72         194.87
  8   194.87      19.49         214.36
  9   214.36      21.44         235.79
  10   235.79     23.58         259.37
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>
```

Assign03_6406021620050_5



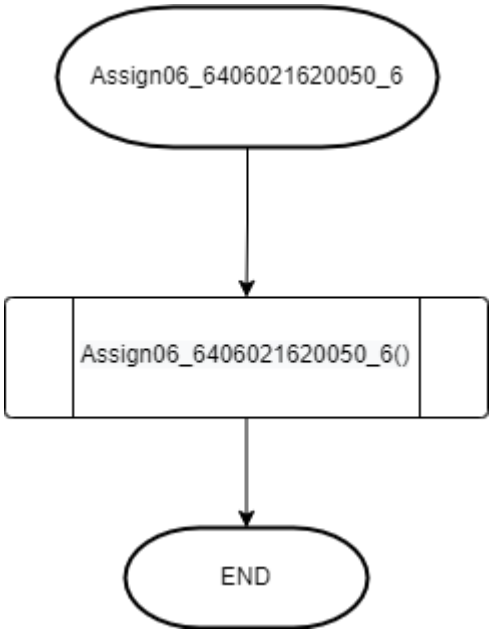

Assign03_6406021620050_5()
long data
int countZero , countOdd , countEven
data
countData()
print
countOdd
countEven
countZero
EXIT

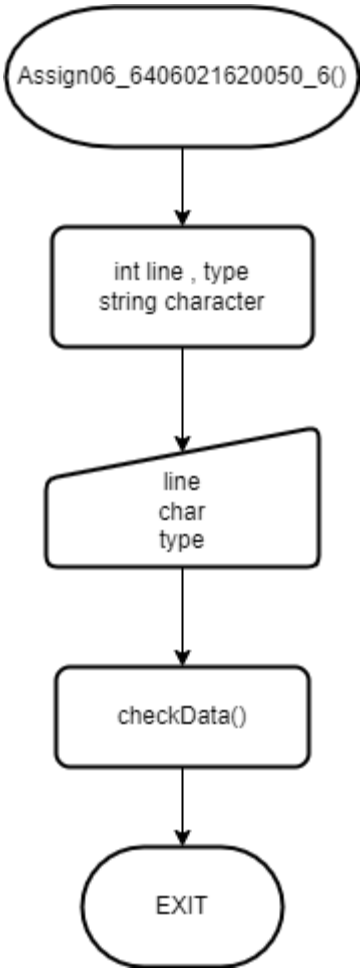

countData()
string dataLength = Long.toString(data)
count = 0
count++
int index =
Interger.pareInt(Strintg.valueOf(dataLength.charAt(count)))
True
index = 0
False
countZero++
True
index % 2 = 0
False
countEven++
countOdd++
True
count <= data.length()
False
EXIT

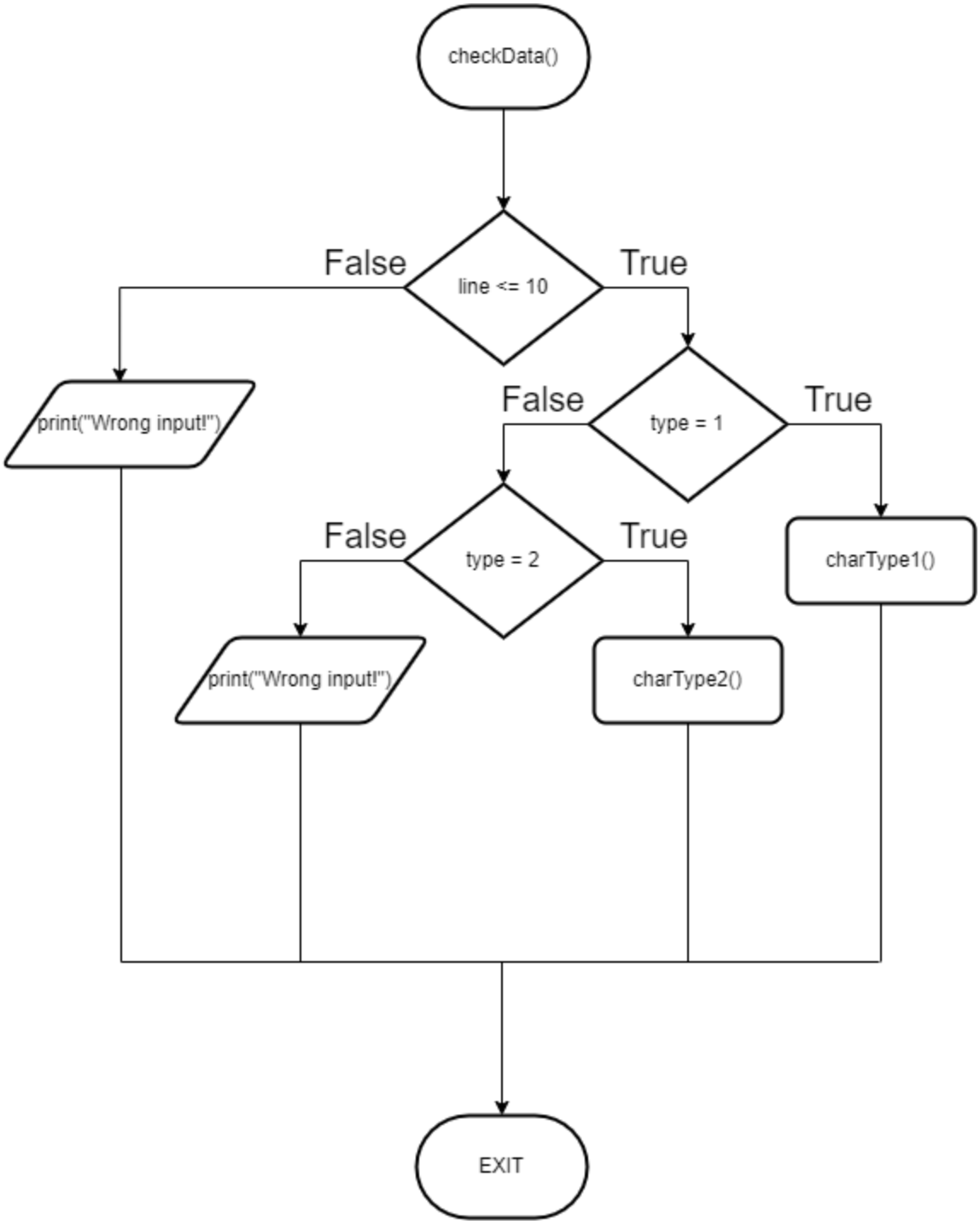
Result Assign03_6406021620050_5

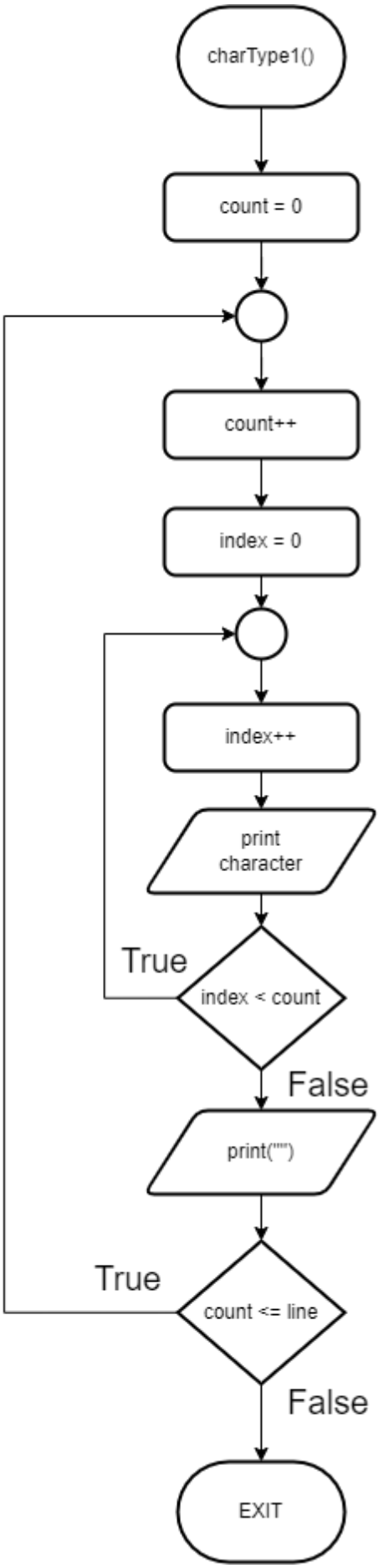
```
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_5'
Enter positive number : 74629084169126
Odd digit = 5
Even digit = 8
Zero digit = 1
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>
```

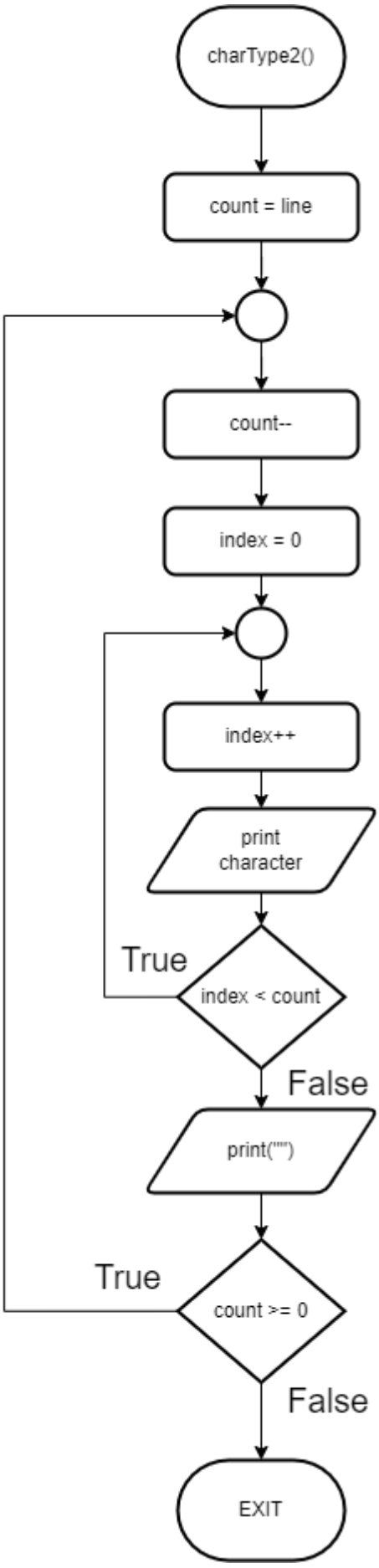
Assign03_6406021620050_6






checkData()
line <= 10
False
True
print("Wrong input!")
type = 1
False
True
type = 2
False
True
charType1()
print("Wrong input!")
charType2()
EXIT

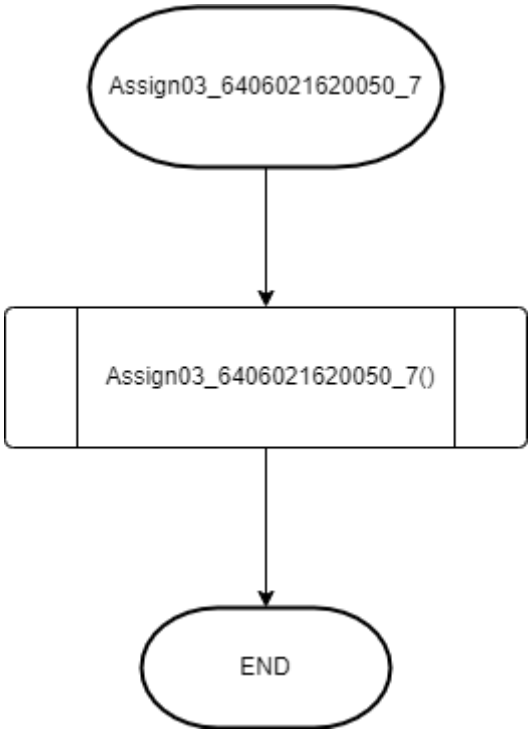

charType1()
count = 0
count++
index = 0
index++
print
character
True
index < count
False
print("")
True
count <= line
False
EXIT

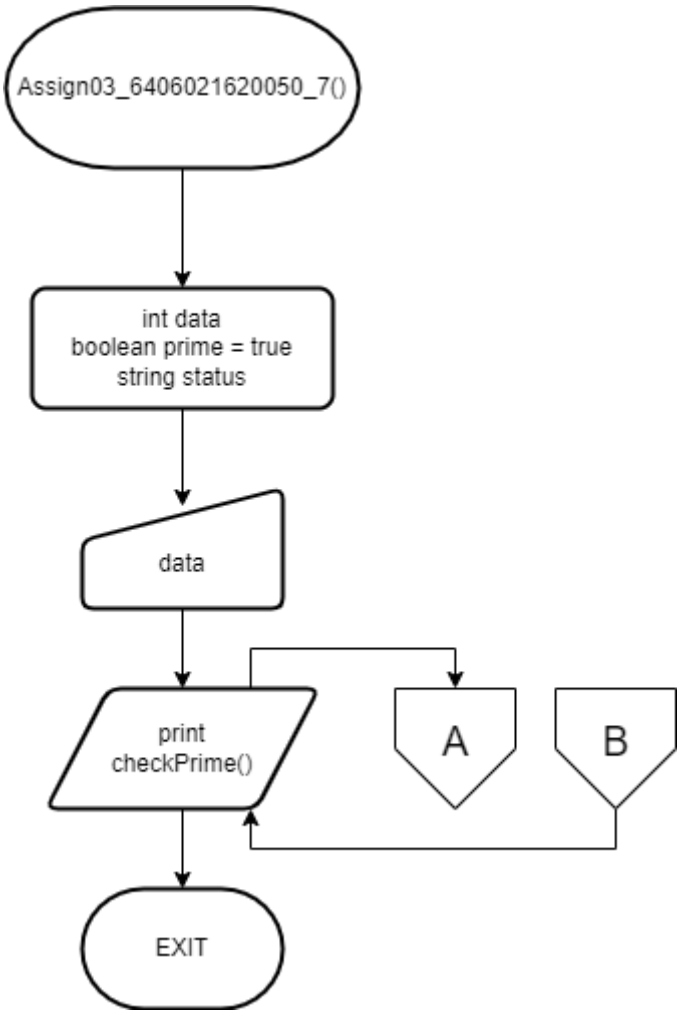

charType2()
count = line
count--
index = 0
index++
print
character
True
index < count
False
print("")
True
count >= 0
False
EXIT

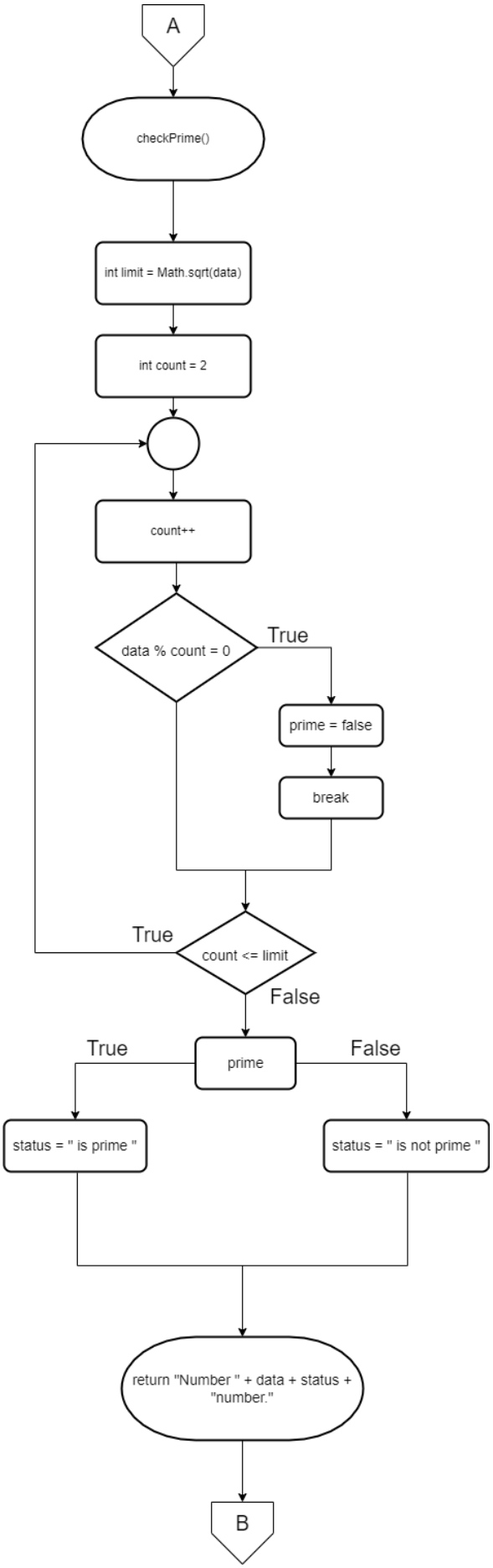
Result Assign03_6406021620050_6

```
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_6'
Input number line : 5
Input character : @

@
@@
@@@
@@@@
@@@@@
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  c:; cd 'c:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050'; & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_6'
Input number line : 5
Input character : @
Input type : 2
@@@@@
@@@@
@@@
@@
@

PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  c:; cd 'c:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050'; & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_6'
Input number line : 11
Input character : @
Input type : 1
Wrong Input!
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  c:; cd 'c:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050'; & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_6'
Input number line : 5
Input character : @
Input type : 3
Wrong input!
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>
```

Assign03_6406021620050_7




Assign03_6406021620050_7()
int data
boolean prime = true
string status
data
print
checkPrime()
A
B
EXIT


A
checkPrime()
int limit = Math.sqrt(data)
int count = 2
count++
data % count = 0
True
prime = false
break
True
count <= limit
False
True
prime
False
status = " is prime "
status = " is not prime "
return "Number " + data + status + "number."
B

Result Assign03_6406021620050_7

```
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_7'
Enter positive number : 117
Number 117 is not prime number.
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>  c:; cd 'c:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050'; & 'C:\Program Files\Java\jdk-16.0.2\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050\bin' 'Assign03_6406021620050_7'
Enter positive number : 151
Number 151 is prime number.
PS C:\Users\Palm\Desktop\VsCode\Java\Assign03_6406021620050>
```

ชื่อ นาย ปัณณวรรธ ปิ่นแสง

รหัสนักศึกษา 6406021620050

ห้อง 1-RA