# Unit 2.1 Algorithms; Lesson 6 – Producing Algorithms

## Activity 1; Low

What will be the result if the flow chart is run with the following input data?

|  |  |
| --- | --- |
| 1. 3,8 |  |
| 1. 2, 10 |  |
| 1. 5, 12   OUTPUT num1  num2 = num2 – num1  Start  INPUT num1  INPUT num2  Is num1 >= num2?  OUTPUT num1  num1 = num1 –+num2  End |  |
| 1. 1, 20 |  |
| 1. 3, 17 |  |

## Lesson 1; Medium

What will be the result if the flow chart is run with the following input data?

|  |  |
| --- | --- |
| 1. 3,8   Start |  |
| 1. 2, 10 |  |
| 1. 5, 12   INPUT num |  |
| 1. 1, 20 |  |
| 1. 3, 17   INPUT age |  |

Is age <= 18?

Is age <= 10?

No

No

Yes

Yes

num = num / 10

num = num + 10

num = num \*10

Is num > 100?

num = 0

No

OUTPUT num

End

## Lesson 1; High

calcTwo(mark)

Start

getInput()

Is age <= 14?

Is age = 15?

calcOne(mark)

calcTwo(mark)

calcThree(mark)

calcThree(mark)

calcThree(mark)

OUTPUT mark

End

OUTPUT "Enter age"

getInput()

INPUT age

RETURN age, mark

OUTPUT "Enter mark"

INPUT mark

End

calcOne(mark)

mark = mark \* 2

RETURN mark

End

calcThree(mark)

mark = mark \* 0.8

RETURN mark

End

calcTwo(mark)

mark = mark \* 1.5

RETURN mark

End

What will be the result if the flow chart is run with the following input data?

|  |  |
| --- | --- |
| 1. 13, 50 |  |
| 1. 14, 25 |  |
| 1. 15, 60 |  |
| 1. 16, 100 |  |
| 1. 17, 20 |  |

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