**Poco the AI Penguin’s C Challenge Sheet**

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**Printing Challenges**

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| Print  Hello World |
| Print  Welcome to CompClub’s C workshop! |
| Print  \_\_\_  ('v')  ((\_\_\_))  ^ ^ |
| Print  ~ ~  0 0  o  \\_/ |
| Print  \ /\  ) ( ‘)  ( / )  \(\_\_)| |
| Print  /\ \_\_\_  <\_\_\\_/ \  \\_ / \_\  \\_\ / \\  // \\  =// \== |
| Print your favourite animal ʕ⁀ᴥ⁀ʔ |

**Variable Challenges**

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| Assign a variable a given number  Print the number out  Reassign the number  Print the new number |
| Assign a variable a given number  Print the number out  Change the variable using mathematics to add 2  Print the new number out |
| Assign a variable a given number  Print the number out  Square the number  Print the square of the number out |
| Assign two variables two different numbers  Print the two numbers out successively  Add the numbers together  Print the addition of the two numbers |

**Scanning Challenges**

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| Write a program that asks for a user’s number ("Enter your number: ")  Scan the number they input  Print the number out again accompanied by text ("My number is <number they entered>”) |
| Write a program that asks for two number inputs ("Enter two numbers: ")  Add the two numbers together  Print the two numbers and the addition of the two ("The sum of <num\_1> and <num\_2> is <sum>") |

**If Challenges**

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| Write a program that asks for a favourite number ("Enter your favourite number: ")  If input number matches a number you selected print ("CONGRATULATIONS - YOU FOUND THE SECRET NUMBER")  Regardless print ("Thank you for your input") |
| Write a program that asks for a favourite number ("Enter your favourite number: ")  If input number matches a number you selected print ("CONGRATULATIONS - YOU FOUND THE SECRET NUMBER")  Else if it doesn’t match print ("SORRY - THAT WAS NOT THE SECRET NUMBER")  Regardless print ("Thank you for your input") |
| Write a program that asks for a favourite number ("Enter your favourite number: ")  If input number matches a number you selected print ("CONGRATULATIONS - YOU FOUND THE SECRET NUMBER")  Else if it is higher than print ("SORRY - THE SECRET NUMBER WAS HIGHER")  Else if it is lower than print ("SORRY - THE SECRET NUMBER WAS LOWER")  Regardless print ("Thank you for your input") |
| Write a program that asks for two number inputs ("Enter two numbers: ")  Ask the user to calculate the sum of the two numbers (“<val\_1> + <val\_2> = “)  If the calculated number is correct print a correct output (“Your answer was correct”)  If the calculated output is wrong print a false output (“Your answer was false”) |
| Write a program that asks for two number inputs ("Enter two numbers: ")  Add the two numbers together  Print the two numbers and the addition of the two ("The sum of <num\_1> and <num\_2> is <sum>") |
| Ask for an equation featuring a number an operation and another number ("Write your equation: x operation y")  Calculate the answer for the equation used as the input  Print the answer to the problem (“= <ans>”) |

**Loop**

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| Write a code that asks for an input ("Please enter a number to count to: ")  Write a code that prints a count from 0 to the number entered (“<num>”) |
| Write a code that asks for two number inputs ("Please enter two numbers to count between: ")  Write a code that counts between the first number and second number (“<num>”) |
| Write a code that asks for two number inputs ("Please enter two numbers to count between: ")  Write a code that asks for the iterate number count ("Please enter an interval to count by: ")  Write a code that counts between the first number and second number (“<num>”) |