ASCII conversions

# Code snippets .

Takes a decimal value and returns the ASCII equivalent character

|  | chr(66) |
| --- | --- |

Takes a character and returns the ASCII equivalent decimal

|  | ord(“C”) |
| --- | --- |

Concatenate a string (add a new string to a string)

|  | message = message + convert |
| --- | --- |

Mini program that takes a decimal value, converts it to a character, and adds it to a string

|  | message = ""  number = int(input())  convert = chr(number)  message = message + convert  print(message) |
| --- | --- |

# Task: Secret message .

Two friends have decided to send secret messages to each other using ASCII codes in place of the characters. A program needs to be created so that a user can type in each code in turn and then reveal the secret message.

The program should:

* Allow the user to type a decimal number and press enter
* Convert the decimal number to its equivalent character
* Add the character to a new string variable
* **Continue to ask** for a new decimal number until the user states that they have finished
* Display the decoded secret message

**Tip**: A while loop will be needed here so that it will continue to ask for a new decimal number until the user has finished. Revisit old programs that use while loops to help you with this.

**Tip:** Use the code snippets on page 1 to help you.

**Tip:** Break the problem down, try not to solve it all in one go.

Here is the first secret message for you to use for testing purposes:

| 77, 101, 101, 116, 32, 105, 110, 32, 114, 111, 111, 109, 32, 50 |
| --- |

**Paste your completed code below:**

| answer = "Y"  message = ""  message\_not\_finished = answer == "Y"  while message\_not\_finished:  print("Enter a coded number:")  number = int(input())  convert = chr(number)  message = message + convert  print("Would you like to enter another number? Y/N")  answer = input().upper()  if answer == "N":  message\_not\_finished = answer == "Y"  print(message) |
| --- |

# Explorer task .

The two friends are fed up with using the ASCII table and want a program that will automatically provide a coded message. Create a new program (using your original code) that will encode a message.

**Paste your completed code below:**

| answer = "Y"  message = ""  message\_not\_finished = answer == "Y"  while message\_not\_finished:  print("Enter a character to encode:")  character = input()  convert = ord(character)  message = message + str(convert)  message = message + ","  print("Would you like to enter another character? Y/N")  answer = input().upper()  if answer == "N":  message\_not\_finished = answer == "Y"  print(message) |
| --- |