

Data Representation: Text

ASCII

A _____ S _____ C _____

I _____ I _____

Character encoding created in the 1960's

- Everything on the keyboard
- Latin characters
- Arabic numerals
- Punctuation
- Non-printable characters
 - Space
 - Tab
 - Carriage return
 - Line feed

Encode the following ASCII string: 'Hello world'

H e l l o <sp> w o r l d .

Use the "hexdump" program to check your answer.

Encode the following ASCII string: 'Insert better example :P'

I n s e r t <sp> b e t t e r <sp>
e x a m p l e <sp> : P

Use the "hexdump" program to check your answer.

Decode the following ASCII encoded string:

0x43 0x45 0x31 0x32 0x21 0x21 0x21

Decode the following ASCII encoded string (values in hex):

46 6c 75 78 20 42 75 6e 6e 79

UTF-8

Other