



Bytes Intermediate Fall 2021 Session 6!

Boston University Girls Who Code

The background features several abstract, organic shapes in teal, dark blue, yellow, and red. A dark brown line meanders across the page, framing the central text. The teal shape in the top left contains white scribbles. The dark blue shape in the top right contains small teal dots. The yellow shape in the bottom left contains small teal dots. The red shape in the bottom right contains a white signature.

How was your week?

Women in STEM Spotlight



Qiheng Hu

- Chinese computer scientist and former leader of the National Computing and Networking Facility of China
- Credited with connecting China to the internet in 1994
- Pioneer of AI research in China
- Helped bring internet to disadvantaged communities in China
- Inducted into the Internet Hall of Fame in 2013

Cryptography Basics

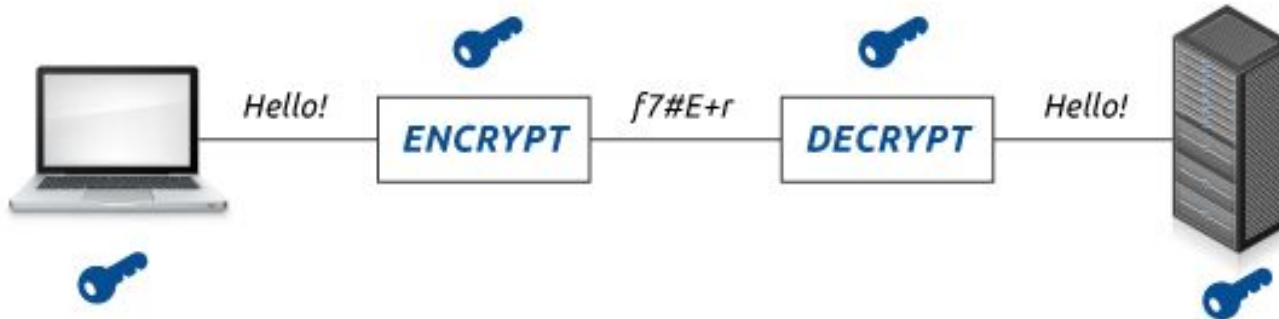
- art of communication between two users via coded messages
- concealing the message to introduce privacy and secrecy as recognized in information security.

Plain text - text which is readable and can be understood by all

Cipher text - message obtained after applying cryptography on plain text.

Encryption - converting plain text to cipher text

Decryption - converting cipher text to plain text



Morse Code

- Type of cipher, or encryption method
- Involves dots and dashes, can be written or audio

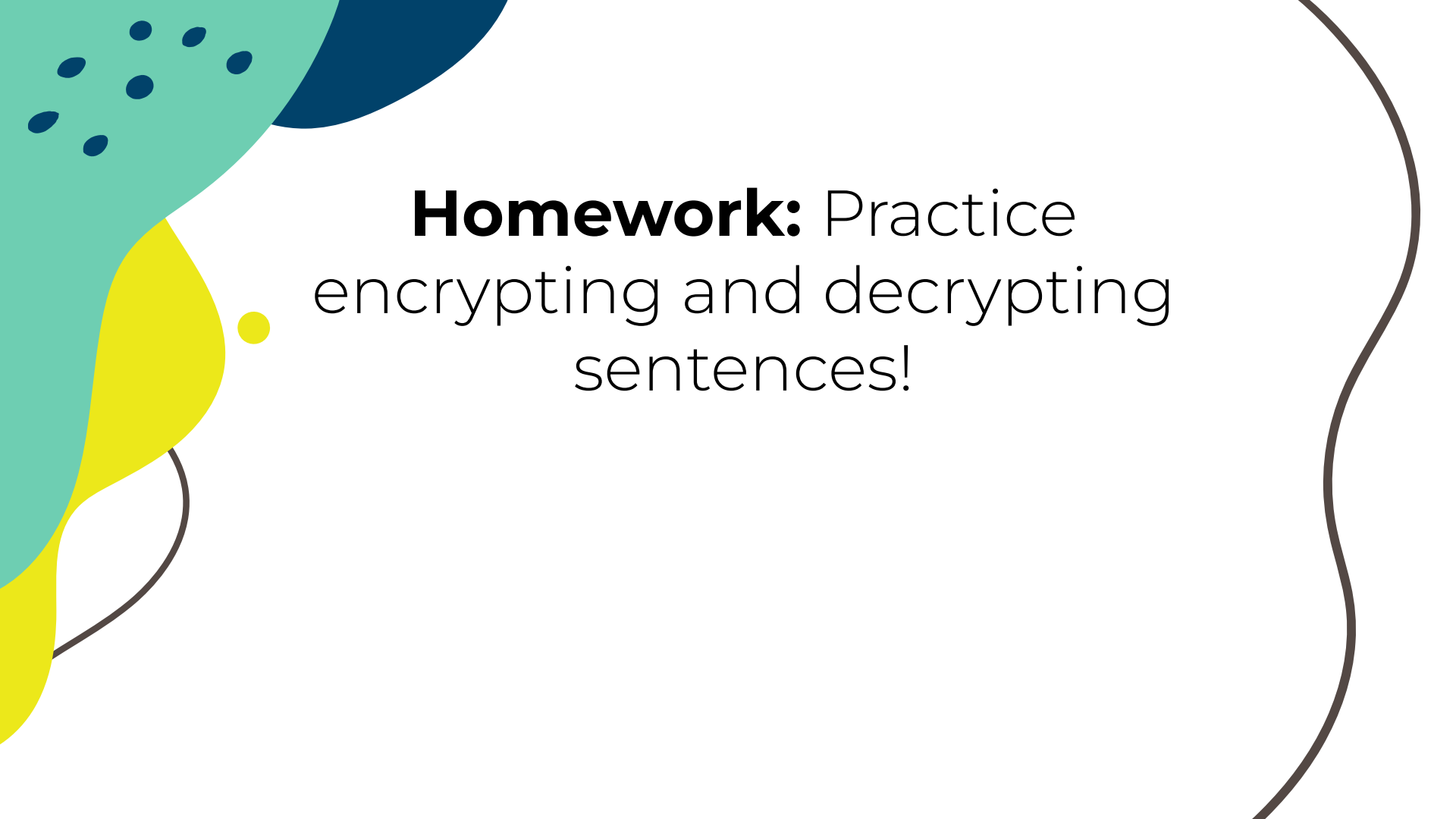
A ● -	J ● - - -	S ● ● ●
B - ● ● ●	K - ● -	T -
C - ● - ●	L ● - ● ●	U ● ● -
D - ● ●	M - -	V ● ● ● -
E ●	N - ●	W ● - -
F ● ● - ●	O - - -	X - ● ● -
G - - ●	P ● - - ●	Y - ● - -
H ● ● ● ●	Q - - ● -	Z - - ● ●
I ● ●	R ● - ●	





Morse Code Translator

Link to Code!



Homework: Practice
encrypting and decrypting
sentences!