Merkle Damgard Transformation

Input: A message x of arbitrary length and an initialization vector of length n.

Output: Returns the hash of input message.

Algorithm:

```
Append length of the message to the input message.
Divide the message into blocks of size n.
For each message block:
    Apply the fixed length hash function to the message the block and the initialization vector
    Update the vector with the result
Return the output the last fixed length hash function.
```