UTILITY FUNCTIONS :

1. decimalToBinary-

`This function is used to convert a decimal number to its binary form`

Parameters	Datatype	Description
n	int	Decimal number

Return:
`(str) : binary representation of n`

Called by:

- `PRG`
- `GEN`
- `ENC`
- `DEC`
- `CBC_MAC`
- `fixedLengthHash`
- `variableLengthHash`
- `HMAC`

Caller of:
`None`

2. binaryToDecimal-

`This function is used to convert a binary string to its decimal form`

Parameters	Datatype	Description
b	str	binary representation of n

Return:
`(int): Decimal of b`

Called by:

- `PRG`
- `GEN`
- `ENC`
- `DEC`

- CBC_MAC
- fixedLengthHash
- variableLengthHash
- HMAC

Caller of:
None

3. lengthExpand-

This function is used to return desired polynomial expansion of seed length (say n) of PRG input

Parameters	Datatype	Description
n	int	Bit size of seed

Return:
(int): expanded poly(n) length that pseudorandom output will be of

Called by:
Code block to test PRG

Caller of:
None

4. msgToBinary-

This function is used to convert a plaintext into its binary form

Parameters	Datatype	Description
msg	str	String consisting of plaintext

Return:
(str): Conversion of plaintext to binary representation

Called by:
- ENC
- HMAC

Caller of:
None

5. **binaryToMsg-**

`This function converts a binary string to message string`

Parameters	Datatype	Description
binary	str	plaintext

Return:
`(str): String representation of plaintext`

Called by:

- `DEC`

Caller of:
`None`