*Function* PRF

This is the pseudo random function implemented using pseudo-random generator (PRG)

*Input Arguments*

* K – key, a binary string
* X – a binary string

*Output*

* Binary string

*Logic*

* For each bit in the X
* If the bit is 0, first half of the output of prg is taken as input for next iteration
* Else if bit is 1, later half is considered and is taken as input for next iteration

*Usage*

PRF is more random than PRG, hence it is used in all further implementations