3) Conditional Expression

We can use conditional expressions to write compact conditional statements.

Syntax:

< expression - if - true > if < condition >

else < expression - if - false >.

< condition > is a boolean expression that evaluates to either True or false.

Example:

$x = 10$

result = "Even" if $x \% 2 == 0$ else "Odd"

print (result).

It returns true if condition is true or exp

returns false if condition is false.

10. Difference between Deep copy and shallow copy.

Shallow copy	Deep copy
- creates a new object and copies the reference of the original object's element into new object	- Creates a new object and copies the actual values of all elements including any reference objects recursively.
- Both the original and copied object point to the same memory locations for the element	- New object has its own independent memory locations for its elements

- If you modify an element in the copied object, it will also reflect in the original object.

- Faster to create

- Modification made to the copied object will not affect the origina[l]

- Slow to create