## 15. Design of 3 stage pipeline for AND, OR, NAND of two numbers using any high level language.

```
Program::
a=int(input("enter number 1 :"))
b=int(input("enter number 2 :"))
c=4
rand=a&b
ror=a/b
rnand=rand
print("the cycle value is",c)
ins=int(input("ennter no of instruction="))
print(" the performance measure=",ins/c)
print("result and=",rand)
print("result or=",ror)
print("result nand=",rnand)
OUTPUT::
```

```
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 File Edit Shell Debug Options Window Help
     Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit ( ^
     AMD64)] on win32
     Type "help", "copyright", "credits" or "license()" for more information.
>>>
     = RESTART: C:\Users\Welcome\AppData\Local\Programs\Python\Python311\3 stage pipe
     line.py
     enter number 1:456
     enter number 2:578
     the cycle value is 4
    ennter no of instruction=34
     the performance measure= 8.5
    result and= 64
    result or= 0.7889273356401384
     result nand= 64
>>>
```