

Physics Walla

Assignment Solutions of Numbers System

Q1 - Print the sum of the first 5 decimal numbers from 1 to 5 in binary format.

Output: -



```
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadline for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadline'.

PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ NS1.cpp -o NS1 } ; if ($?) { .\NS1 }
Binary representation: 1111
PS D:\VS Code\C++>
```

Q2 - Given a natural number, find the number of 0's in the binary representation of that number. Note: Don't count the preceding zeros. For example: 001001 has 2 zeros as the first two zeros from left are preceding zeros.

Output: -

```
File Edit Selection View Go Run ... VS Code
TERMINAL
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PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ NS2.cpp -o NS2 } ; if ($?) { .\NS2 }
Enter a natural number: 15
Number of zeros in the binary representation: 0
PS D:\VS Code\C++> cd "d:\VS Code\C++\" ; if ($?) { g++ NS2.cpp -o NS2 } ; if ($?) { .\NS2 }
Enter a natural number: 27
Number of zeros in the binary representation: 1
PS D:\VS Code\C++> cd "d:\VS Code\C++\" ; if ($?) { g++ NS2.cpp -o NS2 } ; if ($?) { .\NS2 }
Enter a natural number: 1
Number of zeros in the binary representation: 0
1
PS D:\VS Code\C++> cd "d:\VS Code\C++\" ; if ($?) { g++ NS2.cpp -o NS2 } ; if ($?) { .\NS2 }
Enter a natural number: 0
Number of zeros in the binary representation: 1
PS D:\VS Code\C++> cd "d:\VS Code\C++\" ; if ($?) { g++ NS2.cpp -o NS2 } ; if ($?) { .\NS2 }
Enter a natural number: 12
Number of zeros in the binary representation: 2
PS D:\VS Code\C++> 
```

Q3 - Given two binary numbers, return the greatest of these numbers in decimal format.

Output: -

```
File Edit Selection View Go Run ... VS Code
TERMINAL
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadline for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadline'.

PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ NS3.cpp -o NS3 } ; if ($?) { .\NS3 }
Enter the first binary number: 1200
Enter the second binary number: 0110
The greatest binary number is: 12
PS D:\VS Code\C++> cd "d:\VS Code\C++\" ; if ($?) { g++ NS3.cpp -o NS3 } ; if ($?) { .\NS3 }
Enter the first binary number: 0111
Enter the second binary number: 1001
The greatest binary number is: 9
PS D:\VS Code\C++> 
```