**ASSIGNMENT FORMAT**

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| --- | --- | --- | --- |
| **COURSE** |  | **ASSIGNMENT NO** |  |
| **MODULE** |  | **ASSIGNMENT DATE** |  |
| **STUDENT NAME** |  | **SUBMISSION DATE** |  |

Q1. Convert the following decimal to binary Numbers

|  |  |
| --- | --- |
| **Decimal** | **Binary** |
| 192 |  |
| 248 |  |
| 128 |  |
| 224 |  |

Q2. Convert the following hexadecimal numbers to decimal numbers

|  |  |
| --- | --- |
| **Hexadecimal** | **Decimal** |
| 9C |  |
| AE |  |
| DF |  |
| 2B |  |

Q3. Find the IP address, MAC address, Subnet mask, Default Gateway, DNS and public IP of your device/PC and mobile.

Ans:

“*Write the ways to achieve the above details using the possible ways and show/highlight the findings with the help of screenshots*”

Q4. Find the IP address and to which RIR the following websites belong to:

1. [www.purplesynapz.com](http://www.purplesynapz.com)
2. [www.cnn.com](http://www.cnn.com)
3. Website: Reliance Industries
4. Website: Tata Group of Industries
5. [www.youtube.com](http://www.youtube.com)
6. [www.irctc.com](http://www.irctc.com)

Ans:

*“Write down your findings high-lighting them on screenshots two screenshots for each website-one for address resolution and other for RIR”*

Q5. Find the IP Address, MAC address, Subnet Mask, Default Gateway, DNS and Public IP of any 2 other devices at your home and list the findings.  
Now disconnect internet connection in both devices and try to establish connectivity between 2 devices and share your findings.

Ans:

“*Choose any 2 devices other than your PC/laptop and mobile and find the details and write down your observations in points. Support your findings with screenshots”*

**BONUS LAB:**

Find out what all are the responsibilities of IANA.

**PRACTICE QUESTIONS:**

Q1. Who assigns IP address and how they are maintained

Q2. Practice hexadecimal and binary numbers are converted to decimal and vice-versa

Q3. In packet tracer try changing the MAC address and notice the results