1) describe every pseudo class and pseudo elements and explain by an example.

Pseudo classes:

Hover:

a.highlight:hover {  
    color: #ff0000;  
}

Div Hover

div:hover {  
    background-color: blue;  
}

Smart tooltip hover

p {  
    display: none;  
    background-color: yellow;  
    padding: 20px;  
}  
  
div:hover p {  
    display: block;  
}

Match the first <p> element

p:first-child {  
    color: blue;  
}

Pseudo element:

::first-line

p::first-line {  
    color: #ff0000;  
    font-variant: small-caps;  
}

::first-letter

p::first-letter {  
    color: #ff0000;  
    font-size: xx-large;  
}

::first-letter

p.intro::first-letter {  
    color: #ff0000;  
    font-size:200%;  
}

::before

h1::before {  
    content: url(smiley.gif);  
}