**WEEK 5 :**

**Write a HTML code to display the whole periodic table.**

OBJECTIVES :

1. Use <table>, <tr>, and <td> elements to arrange the elements in their correct positions.
2. Display atomic symbols, names, and classifications in a structured manner.
3. To learn the use of ***rowspan***and***colspan*** inside <td> opening tag

TECHNOLOGY USED :

1. **HTML5 :** Used to structure the periodic table using <table>, <tr>, and <td> elements.
2. **Table Elements (<table>, <tr>, <td>) :** Helps in placing elements in their correct positions within the periodic table.

SOURCE CODE :

<!DOCTYPE html>

<html>

<head>

<title>Periodic Table</title>

</head>

<body bgcolor="white">

<table cellspacing="3px" cellpadding="8px">

<tr>

<td></td>

<td></td>

<td></td>

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<td></td>

<td></td>

<td></td>

<td bgcolor="#7ec642"><font color="white" size="1px"><b><center>P</center></b></font><font color="white" size="1px">Periodic</font></td>

<td>e</td>

<td>r</td>

<td>i</td>

<td>o</td>

<td>d</td>

<td>i</td>

<td>c</td>

<td></td>

<td bgcolor="#edc61f"><font color="white" size="1px"><b><center>T</center></b></font><font color="white" size="1px">&nbsp;Table&nbsp;</font></td>

<td>a</td>

<td>b</td>

<td>l</td>

<td>e</td>

</tr>

</table>

<table cellspacing="1px" cellpadding="5px">

<tr>

<td bgcolor="#7ec642"><center><b><font size="4px" color="white" face="Arial">H</font></b></center>

<font size="1px" color="white" face="Arial">Hydrogen</font></td>

<td></td>

<td colspan="10" rowspan="3"></td>

<td></td>

<td></td>

<td></td>

<td></td>

<td></td>

<td bgcolor="#fe7bb3"><center><b><font size="4px" color="white" face="Arial">He</font></b></center>

<font size="1px" color="white" face="Arial"><center>Helium</center></font></td>

</tr>

<tr>

<td bgcolor="#fd1c32"><center><b><font size="4px" color="white" face="Arial">Li</font></b></center>

<font size="1px" color="white" face="Arial"><center>Lithium</center></font></td>

<td bgcolor="#fe9021"><center><b><font size="4px" color="white" face="Arial">Be</font></b></center>

<font size="1px" color="white" face="Arial"><center>Beryllium</center></font></td>

<td bgcolor="#edc61f"><center><b><font size="4px" color="white" face="Arial">B</font></b></center>

<font size="1px" color="white" face="Arial"><center>Boron</center></font></td>

<td bgcolor="#7ec642"><center><b><font size="4px" color="white" face="Arial">C</font></b></center>

<font size="1px" color="white" face="Arial"><center>Carbon</center></font></td>

<td bgcolor="#7ec642"><center><b><font size="4px" color="white" face="Arial">N</font></b></center>

<font size="1px" color="white" face="Arial"><center>Nitrogen</center></font></td>

<td bgcolor="#7ec642"><center><b><font size="4px" color="white" face="Arial">O</font></b></center>

<font size="1px" color="white" face="Arial"><center>Oxygen</center></font></td>

<td bgcolor="#8ba3eb"><center><b><font size="4px" color="white" face="Arial">F</font></b></center>

<font size="1px" color="white" face="Arial"><center>Fluorine</center></font></td>

<td bgcolor="#fe7bb3"><center><b><font size="4px" color="white" face="Arial">Ne</font></b></center>

<font size="1px" color="white" face="Arial"><center>Neon</center></font></td>

</tr>

<tr>

<td bgcolor="#fd1c32"><center><b><font size="4px" color="white" face="Arial">Na</font></b></center>

<font size="1px" color="white" face="Arial"><center>Sodium</center></font></td>

<td bgcolor="#fe9021"><center><b><font size="4px" color="white" face="Arial">Mg</font></b></center>

<font size="1px" color="white" face="Arial"><center>Magnesium</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">Al</font></b></center>

<font size="1px" color="white" face="Arial"><center>Aluminium</center></font></td>

<td bgcolor="#edc61f"><center><b><font size="4px" color="white" face="Arial">Si</font></b></center>

<font size="1px" color="white" face="Arial"><center>Silicon</center></font></td>

<td bgcolor="#7ec642"><center><b><font size="4px" color="white" face="Arial">P</font></b></center>

<font size="1px" color="white" face="Arial"><center>Phosphorus</center></font></td>

<td bgcolor="#7ec642"><center><b><font size="4px" color="white" face="Arial">S</font></b></center>

<font size="1px" color="white" face="Arial"><center>Sulfur</center></font></td>

<td bgcolor="#8ba3eb"><center><b><font size="4px" color="white" face="Arial">Cl</font></b></center>

<font size="1px" color="white" face="Arial"><center>Chlorine</center></font></td>

<td bgcolor="#fe7bb3"><center><b><font size="4px" color="white" face="Arial">Ar</font></b></center>

<font size="1px" color="white" face="Arial"><center>Argon</center></font></td>

</tr>

<tr>

<td bgcolor="#fd1c32"><center><b><font size="4px" color="white" face="Arial">K</font></b></center>

<font size="1px" color="white" face="Arial"><center>Potassium</center></font></td>

<td bgcolor="#fe9021"><center><b><font size="4px" color="white" face="Arial">Ca</font></b></center>

<font size="1px" color="white" face="Arial"><center>Calcium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Sc</font></b></center>

<font size="1px" color="white" face="Arial"><center>Scandium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Ti</font></b></center>

<font size="1px" color="white" face="Arial"><center>Titanium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">V</font></b></center>

<font size="1px" color="white" face="Arial"><center>Vanadium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Cr</font></b></center>

<font size="1px" color="white" face="Arial"><center>Chromium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Mn</font></b></center>

<font size="1px" color="white" face="Arial"><center>Manganese</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Fe</font></b></center>

<font size="1px" color="white" face="Arial"><center>Iron</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Co</font></b></center>

<font size="1px" color="white" face="Arial"><center>Cobalt</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Ni</font></b></center>

<font size="1px" color="white" face="Arial"><center>Nickel</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Cu</font></b></center>

<font size="1px" color="white" face="Arial"><center>Copper</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Zn</font></b></center>

<font size="1px" color="white" face="Arial"><center>Zinc</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">Ga</font></b></center>

<font size="1px" color="white" face="Arial"><center>Gallium</center></font></td>

<td bgcolor="#edc61f"><center><b><font size="4px" color="white" face="Arial">Ge</font></b></center>

<font size="1px" color="white" face="Arial"><center>Germanium</center></font></td>

<td bgcolor="#edc61f"><center><b><font size="4px" color="white" face="Arial">As</font></b></center>

<font size="1px" color="white" face="Arial"><center>Arsenic</center></font></td>

<td bgcolor="#7ec642"><center><b><font size="4px" color="white" face="Arial">Se</font></b></center>

<font size="1px" color="white" face="Arial"><center>Selenium</center></font></td>

<td bgcolor="#8ba3eb"><center><b><font size="4px" color="white" face="Arial">Br</font></b></center>

<font size="1px" color="white" face="Arial"><center>Bromine</center></font></td>

<td bgcolor="#fe7bb3"><center><b><font size="4px" color="white" face="Arial">Kr</font></b></center>

<font size="1px" color="white" face="Arial"><center>Krypton</center></font></td>

</tr>

<tr>

<td bgcolor="#fd1c32"><center><b><font size="4px" color="white" face="Arial">Rb</font></b></center>

<font size="1px" color="white" face="Arial"><center>Rubidium</center></font></td>

<td bgcolor="#fe9021"><center><b><font size="4px" color="white" face="Arial">Sr</font></b></center>

<font size="1px" color="white" face="Arial"><center>Strontium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Y</font></b></center>

<font size="1px" color="white" face="Arial"><center>Yttrium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Zr</font></b></center>

<font size="1px" color="white" face="Arial"><center>Zirconium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Nb</font></b></center>

<font size="1px" color="white" face="Arial"><center>Niobium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Mo</font></b></center>

<font size="1px" color="white" face="Arial"><center>Molybdenum</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Tc</font></b></center>

<font size="1px" color="white" face="Arial"><center>Technetium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Ru</font></b></center>

<font size="1px" color="white" face="Arial"><center>Ruthenium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Rh</font></b></center>

<font size="1px" color="white" face="Arial"><center>Rhodium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Pd</font></b></center>

<font size="1px" color="white" face="Arial"><center>Palladium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Ag</font></b></center>

<font size="1px" color="white" face="Arial"><center>Silver</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Cd</font></b></center>

<font size="1px" color="white" face="Arial"><center>Cadmium</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">In</font></b></center>

<font size="1px" color="white" face="Arial"><center>Indium</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">Sn</font></b></center>

<font size="1px" color="white" face="Arial"><center>Tin</center></font></td>

<td bgcolor="#edc61f"><center><b><font size="4px" color="white" face="Arial">Sb</font></b></center>

<font size="1px" color="white" face="Arial"><center>Antimony</center></font></td>

<td bgcolor="#edc61f"><center><b><font size="4px" color="white" face="Arial">Te</font></b></center>

<font size="1px" color="white" face="Arial"><center>Tellurium</center></font></td>

<td bgcolor="#8ba3eb"><center><b><font size="4px" color="white" face="Arial">I</font></b></center>

<font size="1px" color="white" face="Arial"><center>Iodine</center></font></td>

<td bgcolor="#fe7bb3"><center><b><font size="4px" color="white" face="Arial">Xe</font></b></center>

<font size="1px" color="white" face="Arial"><center>Xenon</center></font></td>

</tr>

<tr>

<td bgcolor="#fd1c32"><center><b><font size="4px" color="white" face="Arial">Cs</font></b></center>

<font size="1px" color="white" face="Arial"><center>Cesium</center></font></td>

<td bgcolor="#fe9021"><center><b><font size="4px" color="white" face="Arial">Ba</font></b></center>

<font size="1px" color="white" face="Arial"><center>Barium</center></font></td>

<td bgcolor="#2830ec"><center><b><font size="4px" color="white" face="Arial">La</font></b></center>

<font size="1px" color="white" face="Arial"><center>Lanthanum</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Hf</font></b></center>

<font size="1px" color="white" face="Arial"><center>Hafnium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Ta</font></b></center>

<font size="1px" color="white" face="Arial"><center>Tantalum</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">W</font></b></center>

<font size="1px" color="white" face="Arial"><center>Tungsten</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Re</font></b></center>

<font size="1px" color="white" face="Arial"><center>Rhenium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Os</font></b></center>

<font size="1px" color="white" face="Arial"><center>Osmium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Ir</font></b></center>

<font size="1px" color="white" face="Arial"><center>Iridium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Pt</font></b></center>

<font size="1px" color="white" face="Arial"><center>Platinum</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Au</font></b></center>

<font size="1px" color="white" face="Arial"><center>Gold</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Hg</font></b></center>

<font size="1px" color="white" face="Arial"><center>Mercury</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">Tl</font></b></center>

<font size="1px" color="white" face="Arial"><center>Thallium</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">Pb</font></b></center>

<font size="1px" color="white" face="Arial"><center>Lead</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">Bi</font></b></center>

<font size="1px" color="white" face="Arial"><center>Bismuth</center></font></td>

<td bgcolor="#a324ed"><center><b><font size="4px" color="white" face="Arial">Po</font></b></center>

<font size="1px" color="white" face="Arial"><center>Polonium</center></font></td>

<td bgcolor="#8ba3eb"><center><b><font size="4px" color="white" face="Arial">At</font></b></center>

<font size="1px" color="white" face="Arial"><center>Astatine</center></font></td>

<td bgcolor="#fe7bb3"><center><b><font size="4px" color="white" face="Arial">Rn</font></b></center>

<font size="1px" color="white" face="Arial"><center>Radon</center></font></td>

</tr>

<tr>

<td bgcolor="#fd1c32"><center><b><font size="4px" color="white" face="Arial">Fr</font></b></center>

<font size="1px" color="white" face="Arial"><center>Francium</center></font></td>

<td bgcolor="#fe9021"><center><b><font size="4px" color="white" face="Arial">Ra</font></b></center>

<font size="1px" color="white" face="Arial"><center>Radium</center></font></td>

<td bgcolor="#1fec9a"><center><b><font size="4px" color="white" face="Arial">Ac</font></b></center>

<font size="1px" color="white" face="Arial"><center>Actinium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Rf</font></b></center>

<font size="1px" color="white" face="Arial"><center>Rutherfordium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Db</font></b></center>

<font size="1px" color="white" face="Arial"><center>Dubnium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Sg</font></b></center>

<font size="1px" color="white" face="Arial"><center>Seaborgium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Bh</font></b></center>

<font size="1px" color="white" face="Arial"><center>Bohrium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Hs</font></b></center>

<font size="1px" color="white" face="Arial"><center>Hassium</center></font></td>

<td bgcolor="#bacbd2"><center><b><font size="4px" color="white" face="Arial">Mt</font></b></center>

<font size="1px" color="white" face="Arial"><center>Meitnerium</center></font></td>

<td bgcolor="#bacbd2"><center><b><font size="4px" color="white" face="Arial">Ds</font></b></center>

<font size="1px" color="white" face="Arial"><center>Darmstadtium</center></font></td>

<td bgcolor="#bacbd2"><center><b><font size="4px" color="white" face="Arial">Rg</font></b></center>

<font size="1px" color="white" face="Arial"><center>Roentgenium</center></font></td>

<td bgcolor="#40b4f4"><center><b><font size="4px" color="white" face="Arial">Cn</font></b></center>

<font size="1px" color="white" face="Arial"><center>Copernicium</center></font></td>

<td bgcolor="#bacbd0"><center><b><font size="4px" color="white" face="Arial">Nh</font></b></center>

<font size="1px" color="white" face="Arial"><center>Nihonium</center></font></td>

<td bgcolor="#bacbd0"><center><b><font size="4px" color="white" face="Arial">Fl</font></b></center>

<font size="1px" color="white" face="Arial"><center>Flerovium</center></font></td>

<td bgcolor="#bacbd0"><center><b><font size="4px" color="white" face="Arial">Mc</font></b></center>

<font size="1px" color="white" face="Arial"><center>Moscovium</center></font></td>

<td bgcolor="#bacbd0"><center><b><font size="4px" color="white" face="Arial">Lv</font></b></center>

<font size="1px" color="white" face="Arial"><center>Livermorium</center></font></td>

<td bgcolor="#bacbd0"><center><b><font size="4px" color="white" face="Arial">Ts</font></b></center>

<font size="1px" color="white" face="Arial"><center>Tennessine</center></font></td>

<td bgcolor="#bacbd0"><center><b><font size="4px" color="white" face="Arial">Og</font></b></center>

<font size="1px" color="white" face="Arial"><center>Oganesson</center></font></td>

</tr>

<tr>

<td></td>

</tr>

<tr>

<tr>

<td colspan="2"></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">La</font></b></center>

<font size="1px" color="white" face="Arial"><center>Lanthanum</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Ce</font></b></center>

<font size="1px" color="white" face="Arial"><center>Cerium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Pr</font></b></center>

<font size="1px" color="white" face="Arial"><center>Praseodymium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Nd</font></b></center>

<font size="1px" color="white" face="Arial"><center>Neodymium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Pm</font></b></center>

<font size="1px" color="white" face="Arial"><center>Promethium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Sm</font></b></center>

<font size="1px" color="white" face="Arial"><center>Samarium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Eu</font></b></center>

<font size="1px" color="white" face="Arial"><center>Europium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Gd</font></b></center>

<font size="1px" color="white" face="Arial"><center>Gadolinium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Tb</font></b></center>

<font size="1px" color="white" face="Arial"><center>Terbium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Dy</font></b></center>

<font size="1px" color="white" face="Arial"><center>Dysprosium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Ho</font></b></center>

<font size="1px" color="white" face="Arial"><center>Holmium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Er</font></b></center>

<font size="1px" color="white" face="Arial"><center>Erbium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Tm</font></b></center>

<font size="1px" color="white" face="Arial"><center>Thulium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Yb</font></b></center>

<font size="1px" color="white" face="Arial"><center>Ytterbium</center></font></td>

<td bgcolor="#2830eb"><center><b><font size="4px" color="white" face="Arial">Lu</font></b></center>

<font size="1px" color="white" face="Arial"><center>Lutetium</center></font></td>

</tr>

<tr>

<td colspan="2"></td>

<td bgcolor="#2eec9f"><center><b><font size="4px" color="white" face="Arial">Ac</font></b></center>

<font size="1px" color="white" face="Arial"><center>Actinium</center></font></td>

<td bgcolor="#2eec9f"><center><b><font size="4px" color="white" face="Arial">Th</font></b></center>

<font size="1px" color="white" face="Arial"><center>Thorium</center></font></td>

<td bgcolor="#2eec9f"><center><b><font size="4px" color="white" face="Arial">Pa</font></b></center>

<font size="1px" color="white" face="Arial"><center>Protactinium</center></font></td>

<td bgcolor="#2eec9f"><center><b><font size="4px" color="white" face="Arial">U</font></b></center>

<font size="1px" color="white" face="Arial"><center>Uranium</center></font></td>

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<font size="1px" color="white" face="Arial"><center>Mendelevium</center></font></td>

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<td bgcolor="#2eec9f"><center><b><font size="4px" color="white" face="Arial">Lr</font></b></center>

<font size="1px" color="white" face="Arial"><center>Lawrencium</center></font></td>

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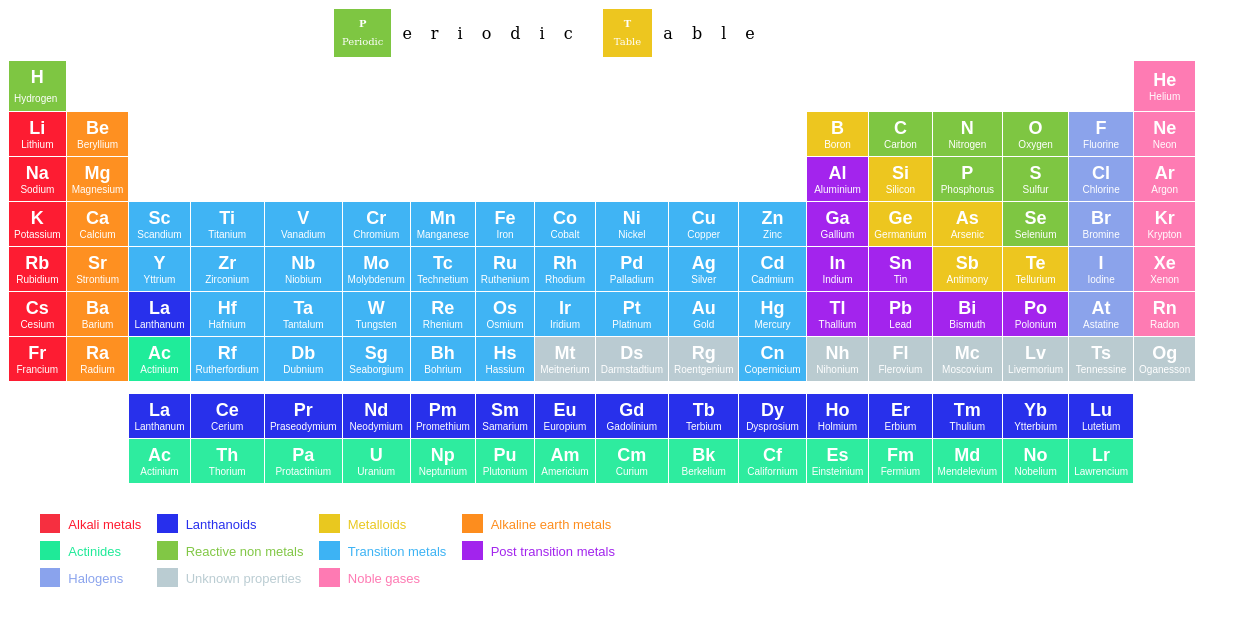
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**OUTPUT** :



**SUBMITTED BY** :

ABHIN huASH TOIJAM

ROLL NO. : BC 1953

SEC : A

BCA 4th SEMESTER