→ ITERATORS SHORT

→ Iterating vector in short way
→ i makes a copy of elements of vector
here, if we want to manipulate original
vector inside this loop then we have to
use refrences like this &i

FOR (INT i : V)
{

    cout << i << "\n";

}

VECTOR < PAIR < INT, INT >> V_P = { {1,2}, {2,3},
    {3,4}};

→ Iterating vector of pairs in short way
FOR (PAIR < INT, INT > &i : V_P)   // passing by
{   refrence here.

    cout << i.FIRST << "" << i.SECOND << "\n";

}

→ AUTO Keyword → It automatically determines what type of datatype we are using, this is often used in range based loops.

```
AUTO    A = 10;
AUTO    B = 10.70;
AUTO    C = "HELLO BRO!";
```

→ Iterating vector of pairs using auto.
```
FOR ( AUTO &i : V_P)
{
    COUT << i.FIRST << " " << i.SECOND << "\n";
}
```