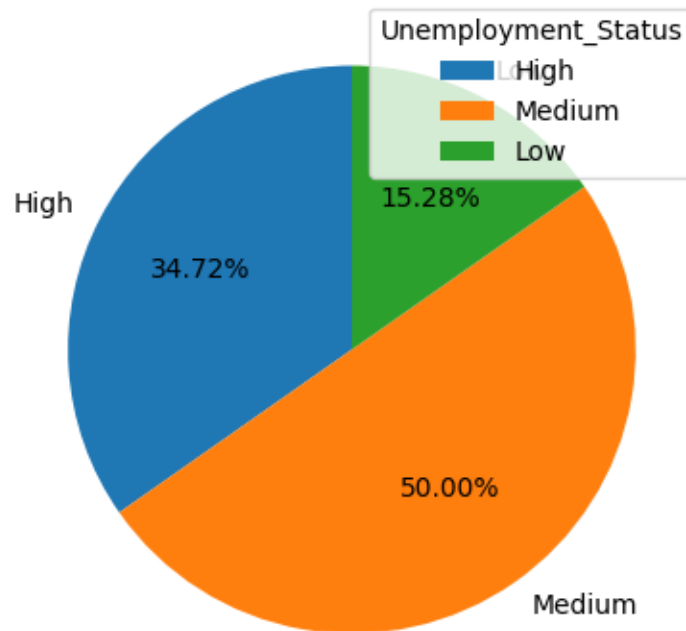


Exercise 1:

1. Paste your output dataframe that should be having 5 rows and 2 columns (year, Avg unemployment rate)

year	Avg_Unemployment_Rate
1982	9.708333
2010	9.608333
1983	9.6
2009	9.283333
2011	8.933333

2. Pie chart plot



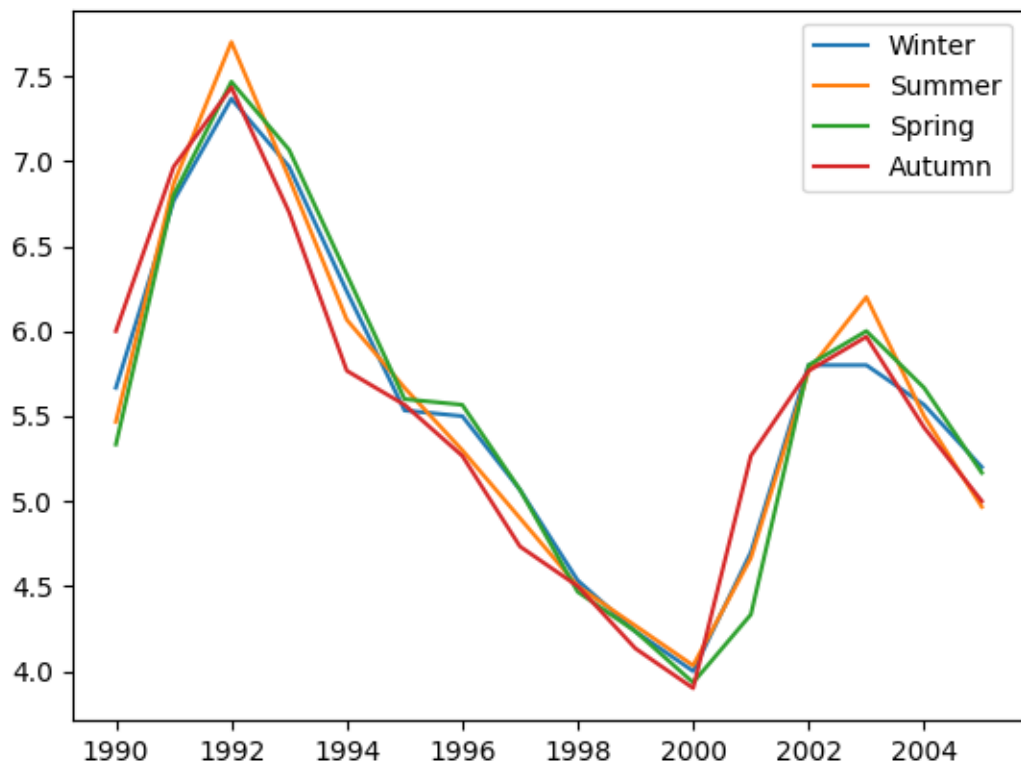
3. Paste your output dataframe that should be having 3 columns (year, Unemployment_Status, Decade)

Year	Unemployment_Status	decade
1948	High	1940s
1949	Low	1940s
1950	Medium	1950s
1951	High	1950s

1952	High	1950s
1953	High	1950s
1954	Medium	1950s
1955	Medium	1950s
1956	Medium	1950s
1957	Medium	1950s
1958	Low	1950s
1959	Medium	1950s
1960	Medium	1960s
1961	Low	1960s
1962	Medium	1960s
1963	Medium	1960s
1964	Medium	1960s
1965	Medium	1960s
1966	High	1960s
1967	High	1960s
1968	High	1960s
1969	High	1960s
1970	Medium	1970s
1971	Medium	1970s
1972	Medium	1970s
1973	Medium	1970s
1974	Medium	1970s
1975	Low	1970s
1976	Low	1970s
1977	Low	1970s
1978	Low	1970s
1979	Medium	1970s
1980	Low	1980s
1981	Low	1980s
1982	Low	1980s
1983	Low	1980s
1984	Low	1980s
1985	Low	1980s
1986	Low	1980s
1987	Low	1980s
1988	Medium	1980s
1989	Medium	1980s
1990	Medium	1990s
1991	Low	1990s
1992	Low	1990s
1993	Low	1990s
1994	Low	1990s
1995	Medium	1990s

1996	Medium	1990s
1997	Medium	1990s
1998	Medium	1990s
1999	Medium	1990s
2000	High	2000s
2001	Medium	2000s
2002	Medium	2000s
2003	Medium	2000s
2004	Medium	2000s
2005	Medium	2000s
2006	Medium	2000s
2007	Medium	2000s
2008	Medium	2000s
2009	Low	2000s
2010	Low	2010s
2011	Low	2010s
2012	Low	2010s
2013	Low	2010s
2014	Low	2010s
2015	Medium	2010s
2016	Medium	2010s
2017	Medium	2010s
2018	High	2010s
2019	High	2010s

4. Show the line plot having 4 lines for all 4 seasons with legend denoting the season name.



5. Paste your output dataframe that should be having 6 rows and 8 columns as mentioned in the question.

Winter	Spring	Summer	Autumn	Winter_Scale	Spring_Scale	Summer_Scale	Autumn_Scale
5.733333	5.866667	4.966667	4.266667	5.733333	5.866667	4.966667	4.266667
5.533333	5.233333	5.5	5.9	5.173333	5.153333	5.293333	5.386667
4.733333	4.6	5	5.6	3.9	3.84	3.953333	4.04
6.6	6.9	7.7	7.5	6.746667	6.706667	6.853333	6.766667
5.666667	5.333333	5.466667	6	5.94	5.92	5.86	5.913333
4	3.933333	4.033333	3.9	4.666667	4.653333	4.6	4.506667