Suppose an economy produces only vegetarian burgers and vegetarian chili, and the prices and quantities that prevailed for 2023 and 2024 are given in the following table.

	2023	2023	2024	2024
	Price	Quantity	Price	Quantity
Veggie Burgers	\$15	20	\$16	22
Veggie Chili	\$12	14	\$13	18

1. Compute nominal GDP for 2023 and 2024.

 $2.\,$ Use 2023 as a base year and compute real GDP for 2023 and 2024.

3. Compute the price level with the GDP deflator for 2023 and 2024, using 2023 a	s a base year.
4. Define the inflation rate . Compute the inflation rate from 2023 and 2024 usin	g your answers above.
5. Suppose in 2023 you earned a nominal wage of \$15 per hour and in 2024 you earned mominal wages and the GDP deflator measure of the price level to compute yo terms of purchasing power of wages, do you think you earned more in 2023 or 2	ur real wage for each year. In

6.	With recent improvements in technological automation, automobile production in manufacturing facilities have become increasingly automated. As a result, there has been a permanent reduction in demand for automobile manufacturing employment in the United States. What type of unemployment does this cause? Explain.
7.	Suppose more college students are graduating than usual, leading new graduates to start looking for work. What type of unemployment may this cause? Explain.
8.	Suppose sales for goods and services are down across the economy, and businesses respond by reducing production and laying off employees. What type of unemployment is this? Explain.

9.	Suppose the country of LoompaLand has a civilian working-age population of $10,000$ Oompa Loompas who are characterized as follows:					
	• 5,000 are employed at Willy Wanka's Chocolate Factory					
	• 1,800 are employed as chocolate industry spies by Sluggwo	orth's Chocolates				
	• 1,000 are employed as vocalists in the local music industry	V				
	• 700 Oompa Loompas are looking for jobs, but are not yet	700 Oompa Loompas are looking for jobs, but are not yet employed 650 Oompa Loompas are not employed, but are not looking for jobs because they became frustrated and gave up trying to find a job 850 Oompa Loompas are retired, not interested in working.				
	• 850 Oompa Loompas are retired, not interested in working					
	(a) Define the labor force participation rate . Compute the labor force participation rate for LoompaLan					
	(b) Define the unemployment rate . Compute the unemploy	wment rate for LoompaLand.				
	(c) Define discouraged worker . How many discouraged wor	rkers are there in LoompaLand?				