1. Write a Pandas program to create

a) Datetime object for Jan 15 2012.

b) Specific date and time of 9:20 pm.

c) Local date and time.

d) A date without time.

e) Current date.

f) Time from a datetime.

g) Current local time.

2. Write a Pandas program to create

a) a specific date using timestamp.

b) date and time using timestamp.

c) a time adds in the current local date using timestamp.

d) current date and time using timestamp.

3. Write a Pandas program to create a date from a given year, month, day and another date from a given string formats.

4. Write a Pandas program to print the day after and before a specified date. Also print the days between two given dates.

5. Write a Pandas program to create a time-series with two index labels and random values. Also print the type of the index.

6. Write a Pandas program to create a time-series from a given list of dates as strings.

7. Write a Pandas program to create a time series object that has time indexed data. Also select the dates of same year and select the dates between certain dates.

8. Write a Pandas program to create a date range using a startpoint date and a number of periods.

9. Write a Pandas program to create a whole month of dates in daily frequencies. Also find the maximum, minimum timestamp and indexs.

10. Write a Pandas program to create a time series using three months frequency.

11. Write a Pandas program to create a sequence of durations increasing by an hour.

12. Write a Pandas program to convert year and day of year into a single datetime column of a dataframe.

13. Write a Pandas program to create a series of Timestamps from a DataFrame of integer or string columns. Also create a series of Timestamps using specified

columns.

14. Write a Pandas program to check if a day is a business day (weekday) or not.

15. Write a Pandas program to get a time series with the last working days of each month of a specific year.

16. Write a Pandas program to create a time series combining hour and minute.

17. Write a Pandas program to convert unix/epoch time to a regular time stamp in UTC. Also convert the said timestamp in to a given time zone.

18. Write a Pandas program to create a time series object with a time zone.

19. Write a Pandas program to remove the time zone information from a Time series data.

20. Write a Pandas program to subtract two timestamps of same time zone or different time zone.

21. Write a Pandas program to calculate all Thursdays between two given days.

22. Write a Pandas program to find the all the business quarterly begin and end dates of a specified year.

23. Write a Pandas program to generate sequences of fixed-frequency dates and time spans intervals.

24. Write a Pandas program to generate time series combining day and intraday offsets intervals.

25. Write a Pandas program to extract the day name from a specified date. Add 2 days and 1 business day with the specified date.

26. Write a Pandas program to convert integer or float epoch times to Timestamp and DatetimeIndex.

27. Write a Pandas program to calculate one, two, three business day(s) from a specified date. Also find the next business month end from a specific date.

28. Write a Pandas program to create a period index represent all monthly boundaries of a given year. Also print start and end time for each period object in the said index.

29. Write a Pandas program create a series with a PeriodIndex which represents all the calendar month periods in 2029 and 2031. Also print the values for all periods in 2030.
Note: PeriodIndex is an immutable ndarray holding ordinal values indicating regular periods in time such as particular years, quarters, months, etc.

30. Write a Pandas program to generate holidays between two dates using the US federal holiday calendar.

31. Write a Pandas program to create a monthly time period and display the list of names in the current local scope.
32. Write a Pandas program to create a yearly time period from a specified year and display the properties of this period.