1.

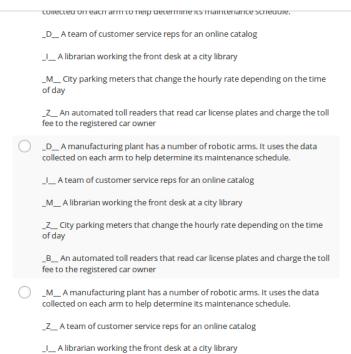| 1 point |
|---|

In each of the given situations the task is at one of the five phases of the "Path to ML".

Identify the phase of each of tasks by writing

I for individual contributor

D for delegation

Z for digitization

B for big data and analytics

M for machine learning

____ A manufacturing plant has a number of robotic arms. The manufacturing team uses the data collected on each arm to help determine its maintenance schedule.

____ A team of customer service reps who take orders for an online catalog

____ A librarian working the front desk at a city library

____ City parking meters that change the hourly rate depending on anticipated demand

____ An automated toll readers that read car license plates and charge the toll fee to the registered car owner

○ _B_ A manufacturing plant has a number of robotic arms. It uses the data collected on each arm to help determine its maintenance schedule.

collected on each arm to help determine its maintenance schedule.

_D_ A team of customer service reps for an online catalog

_I_ A librarian working the front desk at a city library

_M_ City parking meters that change the hourly rate depending on the time of day

_Z_ An automated toll readers that read car license plates and charge the toll fee to the registered car owner

○ _D_ A manufacturing plant has a number of robotic arms. It uses the data collected on each arm to help determine its maintenance schedule.

_I_ A team of customer service reps for an online catalog

_M_ A librarian working the front desk at a city library

_Z_ City parking meters that change the hourly rate depending on the time of day

_B_ An automated toll readers that read car license plates and charge the toll fee to the registered car owner

○ _M_ A manufacturing plant has a number of robotic arms. It uses the data collected on each arm to help determine its maintenance schedule.

_Z_ A team of customer service reps for an online catalog

_I_ A librarian working the front desk at a city library

_I__ A librarian working the front desk at a city library

_B__ City parking meters that change the hourly rate depending on the time of day

_D__ An automated toll readers that read car license plates and charge the toll fee to the registered car owner

---

1 point

2. In each of the given situations a company is in one of the five phases of the "Path to ML".

Identify the phase of each of tasks by writing

I for individual contributor

D for delegation

Z for digitization

B for big data and analytics

M for machine learning

___ All tasks (execution of process, choosing operational parameters, and feedback of parameters) are fully automated

___ A person performs the task and instructions to complete the task are passed from person to person

___ A computer executes the process and a software engineer ensures the parameters are part of the feedback loop. Parameters are chosen through analysis of historical patterns

___ A computer executes the process but a person supplies the parameters via a graphical user interface

___ A task is completed by a group of people

○ _B_ All tasks (execution of process, choosing operational parameters, and feedback of parameters) are fully automated

_M_ A person performs the task and instructions to complete the task are passed from person to person

_D_ A computer executes the process and a software engineer ensures the parameters are part of the feedback loop. Parameters are chosen through analysis of historical patterns

_Z_ A computer executes the process but a person supplies the parameters via a graphical user interface

_I_ A task is completed by a group of people

○ _I_ All tasks (execution of process, choosing operational parameters, and

○ _I__ All tasks (execution of process, choosing operational parameters, and feedback of parameters) are fully automated

_B__ A person performs the task and instructions to complete the task are passed from person to person

_M__ A computer executes the process and a software engineer ensures the parameters are part of the feedback loop. Parameters are chosen through analysis of historical patterns

_Z__ A computer executes the process but a person supplies the parameters via a graphical user interface

_D__ A task is completed by a group of people

◉ _M__ All tasks (execution of process, choosing operational parameters, and feedback of parameters) are fully automated

_I__ A person performs the task and instructions to complete the task are passed from person to person

_B__ A computer executes the process and a software engineer ensures the parameters are part of the feedback loop. Parameters are chosen through analysis of historical patterns

_Z__ A computer executes the process but a person supplies the parameters via a graphical user interface

_D__ A task is completed by a group of people

_D__ A task is completed by a group of people

<table>
<tr><td>1
point</td><td>**3.**</td><td>You are a consultant for a company that is about to begin development on an ML model that they hope to deploy in the near future. They would like to have the model ready in one year. The company wants you to tell them where they should concentrate their efforts.</td></tr>
</table>

Which one of these tasks often requires the most effort.

○ Defining key goals

○ Collecting data

◉ Building infrastructure

○ Optimizing the algorithm

○ Integration of the model