rmdir command has some limitations

1) we can delete only empty directory
2) we cannot delete files or file.

So we can overcome this problem by using rm command

About rm command

-> rm stands for remove
-> It is used to delete file or files
-> It is used to delete empty directory
-> It is used to delete non-empty directory

syntax of rm command

rm option file_or_directory_name

various options of rm command

 i) -i (interactive)

   while deleting files and directories, if we want confirmation then we can use
   -i option.

 ii) -f (Forcefull Removal)
   While deleting files and directories, if we don't want any error message then use
   -f option

 iii) -v (Verbose)

   If we want to know sequence of activity of removal on the screen then we can use
   -v option

iv) -r or -R (Recursive)

   when we are using rm command to delete Directory we have to use -r or -R
   option

Note: in linux operating system, there is no way to peform undo operation
      ones we delete a file or directory, it is impossible retrive that.
      so while using rm command we have to take special care.

Example 1

we cannot delete a file using rmdir command, by mistake if you are trying
to delete a file using rmdir command then we will get error

```
root@DESKTOP-1VT9LL4:~# rmdir File22.txt
rmdir: failed to remove 'File22.txt': Not a directory
```

Example 2

We cannot delete non-empty directory with the help of **rmdir** command
by mistake if we are trying to delete a non-empty directory using **rmdir**
command then we will get error

```
root@DESKTOP-1VT9LL4:~# rmdir Honda
rmdir: failed to remove 'Honda': Directory not empty
```

Example 3 :rm command with -i and -v option

```
root@DESKTOP-1VT9LL4:~# rm -i File22.txt
rm: remove regular file 'File22.txt'? N
root@DESKTOP-1VT9LL4:~# rm -iv File22.txt
rm: remove regular file 'File22.txt'? Y
removed 'File22.txt'
```

when we use - option then it will ask for confirmation before delete

if we press Y then file get delete and if we press N then it will not delete

Example 4 : rm command with -rvi options

```
root@DESKTOP-1VT9LL4:~# rm -ivr Honda
rm: descend into directory 'Honda'? y
rm: remove regular empty file 'Honda/A3.txt'? y
removed 'Honda/A3.txt'
rm: remove directory 'Honda/AA'? y
removed directory 'Honda/AA'
```

interview questions

Q. 1 What is the diffence between the following commands?

    case 1: mkdir Dir1/Dir2/Dir3

    case 2: mkdir -p dir1/Dir2/Dir3

in first case if Dir1 and Dir2 are already present then Dir3 will
get created if not already present then we will get error

for second case if dir1 and Dir2 are not present then due to -p option
it will create that directory and inside Dir2 , Dir3 will get created

if dir1 and Dir2 are already present then they are reused and
Dir3 is created inside Dir2

Q. What is advantage of using rm command over rmdir command while
   removing directory?
      or
Q. What is difference between rm and rmdir command?

Ans:
-> rmdir command delete only empty directory but rm command delete both empty
   and non-empty directory

-> with the help of rmdir command we cannot delete a file but with the help rm
   command we can delete a file also

-> rm is more powerfull then rmdir command