Answer 1


```
zmoustafa@cis106student:~/lab4/question1$ ls
about-page.html  bots.txt      download.js     html_page.html  main.css  pageload.js     styles.css
books.txt        creation.txt  home_page.html  linux.txt       page.css  rook.rock.txt   workload.js
zmoustafa@cis106student:~/lab4/question1$ ls *.txt
books.txt  bots.txt  creation.txt  linux.txt  rook.rock.txt
zmoustafa@cis106student:~/lab4/question1$ ls b*.txt
books.txt  bots.txt
zmoustafa@cis106student:~/lab4/question1$ *css
main.css  page.css  styles.css
zmoustafa@cis106student:~/lab4/question1$ ls *html
about-page.html  home_page.html  html_page.html
zmoustafa@cis106student:~/lab4/question1$ ls -s *page*
 8 about-page.html  12 home_page.html   8 html_page.html   4 page.css   4 pageload.js
zmoustafa@cis106student:~/lab4/question1$ ls
about-page.html  bots.txt      download.js     html_page.html  main.css  pageload.js     styles.css
books.txt        creation.txt  home_page.html  linux.txt       page.css  rook.rock.txt   workload.js
zmoustafa@cis106student:~/lab4/question1$ mkdir web
zmoustafa@cis106student:~/lab4/question1$ mv lab4/question1/*html web
mv: cannot stat 'lab4/question1/*html': No such file or directory
zmoustafa@cis106student:~/lab4/question1$ mv ~/lab4/question1/*html web
zmoustafa@cis106student:~/lab4/question1$ ls web
about-page.html  home_page.html  html_page.html
zmoustafa@cis106student:~/lab4/question1$ mkdir docs
zmoustafa@cis106student:~/lab4/question1$ mv ~/lab4/question1/*css web
zmoustafa@cis106student:~/lab4/question1$ ls web
about-page.html  home_page.html  html_page.html  main.css  page.css  styles.css
zmoustafa@cis106student:~/lab4/question1$ mv ~/lab4/question1/*txt docs
zmoustafa@cis106student:~/lab4/question1$ mv ~/lab4/question1/*js docs
zmoustafa@cis106student:~/lab4/question1$ ls docs
books.txt  bots.txt  creation.txt  download.js  linux.txt  pageload.js  rook.rock.txt  workload.js
zmoustafa@cis106student:~/lab4/question1$
```

Answer 2


```
zmoustafa@cis106student:~/lab4/question2$ mv b?d.xml xmlfiles/
zmoustafa@cis106student:~/lab4/question2$ ls -X1
xmlfiles
feat.json
feet.json
foot.json
casino.xml
cat.xml
cool.xml
zmoustafa@cis106student:~/lab4/question2$ ls .??*
.hiddenfileA.log  .hiddenfileB.log  .hiddenfileC.log  .hiddenfileD.log
zmoustafa@cis106student:~/lab4/question2$ ls *.????
feat.json  feet.json  foot.json
zmoustafa@cis106student:~/lab4/question2$ ls f??t
ls: cannot access 'f??t': No such file or directory
zmoustafa@cis106student:~/lab4/question2$ ls *f??t*
feat.json  feet.json  foot.json
zmoustafa@cis106student:~/lab4/question2$
```

Answer 3

```
                                        zmoustafa@cis106student: ~/lab4/question3

zmoustafa@cis106student:~/lab4/question2$ cd ../question3/
zmoustafa@cis106student:~/lab4/question3$ ls -A .[a-z]*.py
.app.py  .main.py
zmoustafa@cis106student:~/lab4/question3$ ls [A-Z][a-z]*[0-9].*
Main1.py
zmoustafa@cis106student:~/lab4/question3$ ls [a-k]*.??
drill.py  kcc.rb
zmoustafa@cis106student:~/lab4/question3$ ls [!A-Z]*[!0-9].*
drill.py  kcc.rb
zmoustafa@cis106student:~/lab4/question3$
```

<div align="center">2 / 3</div>

Answer 4

```
                                        zmoustafa@cis106student: ~/lab4/question4

zmoustafa@cis106student:~/lab4/question4$ mkdir -p wallpapers/{cars,ocean}/{1080p,2k,4k}
zmoustafa@cis106student:~/lab4/question4$ tree wallpapers
wallpapers
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
└── ocean
    ├── 1080p
    ├── 2k
    └── 4k

8 directories, 0 files
zmoustafa@cis106student:~/lab4/question4$ mkdir -p assests/{imgs,videos}/{large,small}/source
zmoustafa@cis106student:~/lab4/question4$ tree assests
assests
├── imgs
│   ├── large
│   │   └── source
│   └── small
│       └── source
└── videos
    ├── large
    │   └── source
    └── small
        └── source

10 directories, 0 files
zmoustafa@cis106student:~/lab4/question4$ mkdir -p docs/{books,research}/{history,math,science,social}
zmoustafa@cis106student:~/lab4/question4$ tree docs
docs
├── books
│   ├── history
│   ├── math
│   ├── science
│   └── social
└── research
    ├── history
    ├── math
    ├── science
    └── social

10 directories, 0 files
zmoustafa@cis106student:~/lab4/question4$
```

```
                                            zmoustafa@cis106student: ~/lab4/question4

zmoustafa@cis106student:~/lab4/question4$ mkdir -p Research/{books/{math,science}/{epub,pdf},magazines/{computers,running,videogames}/{fanmade,official}}
zmoustafa@cis106student:~/lab4/question4$ tree Research
Research
├── books
│   ├── math
│   │   ├── epub
│   │   └── pdf
│   └── science
│       ├── epub
│       └── pdf
└── magazines
    ├── computers
    │   ├── fanmade
    │   └── official
    ├── running
    │   ├── fanmade
    │   └── official
    └── videogames
        ├── fanmade
        └── official

17 directories, 0 files
zmoustafa@cis106student:~/lab4/question4$ mkdir -p backup/{files/{personal,programs,school}/{feb,jan,mar},images/{cars,classic,panorama,world}/{high,low},random}
zmoustafa@cis106student:~/lab4/question4$ tree backup
backup
├── files
│   ├── personal
│   │   ├── feb
│   │   ├── jan
│   │   └── mar
│   ├── programs
│   │   ├── feb
│   │   ├── jan
│   │   └── mar
│   └── school
│       ├── feb
│       ├── jan
│       └── mar
├── images
│   ├── cars
│   │   ├── high
│   │   └── low
│   ├── classic
│   │   ├── high
│   │   └── low
│   ├── panorama
│   │   ├── high
```

```
                                            zmoustafa@cis106student: ~/lab4/question4

│   │   └── pdf
└── magazines
    ├── computers
    │   ├── fanmade
    │   └── official
    ├── running
    │   ├── fanmade
    │   └── official
    └── videogames
        ├── fanmade
        └── official

17 directories, 0 files
zmoustafa@cis106student:~/lab4/question4$ mkdir -p backup/{files/{personal,programs,school}/{feb,jan,mar},images/{cars,classic,panorama,world}/{high,low},random}
zmoustafa@cis106student:~/lab4/question4$ tree backup
backup
├── files
│   ├── personal
│   │   ├── feb
│   │   ├── jan
│   │   └── mar
│   ├── programs
│   │   ├── feb
│   │   ├── jan
│   │   └── mar
│   └── school
│       ├── feb
│       ├── jan
│       └── mar
├── images
│   ├── cars
│   │   ├── high
│   │   └── low
│   ├── classic
│   │   ├── high
│   │   └── low
│   ├── panorama
│   │   ├── high
│   │   └── low
│   └── world
│       ├── high
│       └── low
└── random

27 directories, 0 files
zmoustafa@cis106student:~/lab4/question4$
```