```
#!/bin/bash
# A nano script
echo "March 7th is doing the work for you"
# basename mean to removes the folder path for example unorganized/vivi.jpg to vivi.jpg
# extension="${filename##*.}" mean removes everything up to the last dot like this ${variable##pattern}
# for example, vivi.jpg to jpg
for file in unorganized/*; do
  filename=$(basename "$file")
  extension="${filename##*.}"
  # we will decide folder based on extension
  if [[ "$extension" == "txt" ]]; then
        folder="texts"
  elif [[ "$extension" == "jpg" || "$extension" == "png" ]]; then
        folder="images"
  elif [[ "$extension" == "pdf" ]]; then
    folder="documents"
  else
        folder="others"
  fi
  # create folder if it doesn't exist
  mkdir -p "$folder"
  mv "$file" "$folder/"
  # print logs
  echo "Moving $filename to $folder/"
```

echo "March finished the work!"

```
16
       for file in unorganized/*; do
17
           filename=$(basename "$file")
18
           extension="${filename##*.}"
19
20
           # we will decide folder based on extension
           if [[ "$extension" == "txt" ]]; then
21
22
               folder="texts"
23
           elif [[ "$extension" == "jpg" || "$extension" == "png" ]]; then
24
               folder="images"
25
           elif [[ "$extension" == "pdf" ]]; then
               folder="documents"
26
27
               folder="others"
28
           fi
29
31
           # create folder if it doesn't exist
           mkdir -p "$folder"
32
33
           mv "$file" "$folder/"
34
35
           # print logs
           echo "Moving $filename to $folder/"
36
37
       done
38
       echo "March finished the work!"
```

(Picture version) https://github.com/chaiyanunSaku/syskills/blob/main/ex3/organize.sh

```
□ X

onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ ls

documents images organize.sh texts unorganized
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ cd documents/
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3/documents} ls

dsoop.pdf numcom.pdf
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3/documents$ ls

dsoop.pdf numcom.pdf
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ git fetch origin
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ git reset --hard origin/main
HEAD is now at dd3Hc8d update organize to be completed
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ git clean -fd
Removing documents/numcom.pdf
Removing documents/numcom.pdf
Removing texts/NIKI.txt
Removing texts/NIKI.txt
Removing texts/NIKI.txt
Removing texts/NIKI.txt
Removing texts/NIKI.txt
Removing texts/NIKI.txt
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ cd texts
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ cd texts
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3$ cd tounorganized/
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* cd unorganized/
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* cd unorganized$ ls
LANY.txt NIKI.txt Onrisa.jpg dsoop.pdf file1.txt m7.txt numcom.pdf onrie.jpg saku.jpg vivi.jpg
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* cd texts
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* ls
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* ls
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* cd texts
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* ls
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* ls
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* ls
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3* lx
onglee@LAPTOP-SIDQNOHU: "/syskills/ex3
```

Inside "unorganized" folder there are total of 10 files. The other folders don't have any files initially.

Now let's run the script.

```
./organize.sh to run the script.
March 7th is doing the work for you
Moving LANY.txt to texts/
Moving NIKI.txt to texts/
Moving Onrisa.jpg to images/
Moving dsoop.pdf to documents/
Moving file1.txt to texts/
Moving m7.txt to texts/
Moving numcom.pdf to documents/
Moving onrie.jpg to images/
Moving saku.jpg to images/
Moving vivi.jpg to images/
March finished the work!
As you can see the files like .txt moved correctly into their respective folders.
let me explain the script
for file in unorganized/*; do
  filename=$(basename "$file")
  extension="${filename##*.}"
basename mean to removes the folder path for example unorganized/vivi.jpg to vivi.jpg
extension="${filename##*.}" mean removes everything up to the last dot like this ${variable##pattern}
for example, vivi.jpg to jpg
  if [[ "$extension" == "txt" ]]; then
        folder="texts"
  elif [[ "$extension" == "jpg" || "$extension" == "png" ]]; then
        folder="images"
```

```
elif [[ "$extension" == "pdf" ]]; then
  folder="documents"
else
     folder="others"
fi
```

this is the condition to match the \$extension, for example if our extension == "txt" then folder will be "texts"

```
# create folder if it doesn't exist

mkdir -p "$folder"

mv "$file" "$folder/"

# print logs

echo "Moving $filename to $folder/"

done
```

if the file doesn't match then it will go to "others" folder and we will create a new directory for it. This happens every iteration if it detects no matches.

mkdir -p ensures the folder exists (creates it if missing)

Then it will move the file to the respective folder by using mv "\$file" "\$folder/"