Que. Write a shell program to extract a compressed file in any format (zip, tar.gz, tar.gz2, .tar, .bz2, .gz, .rar, .Z, .7z, etc)

#code:

```bash
#!/bin/bash
extract() {
  if [ -z "$1" ]; then
    echo "Usage: $0 <file>"
    exit 1
  fi
  FILE=$1
  if [ ! -f "$FILE" ]; then
    echo "Error: File '$FILE' not found!"
    exit 1
  fi
  case "$FILE" in
  *.tar.bz2)  tar xvjf "$FILE"; echo "Successfully done!" ;;
  *.tar.gz)   tar xvzf "$FILE"; echo "Successfully done!" ;;
  *.bz2)      bunzip2 "$FILE"; echo "Successfully done!" ;;
  *.rar)      unrar x "$FILE"; echo "Successfully done!" ;;
  *.gz)       gunzip "$FILE"; echo "Successfully done!" ;;
  *.tar)      tar xvf "$FILE"; echo "Successfully done!" ;;
  *.tbz2)     tar xvjf "$FILE"; echo "Successfully done!" ;;
  *.tgz)      tar xvzf "$FILE"; echo "Successfully done!" ;;
  *.zip)      unzip "$FILE"; echo "Successfully done!" ;;
  *.Z)        uncompress "$FILE"; echo "Successfully done!" ;;
  *.7z)       7z x "$FILE"; echo "Successfully done!" ;;
  *)          echo "Unsupported file format"; exit 1 ;;
  esac
}
```

```
extract "$1"
```

Output:

```
Asus@MrugankshaK MINGW64 ~
$ ./extract.sh trial.zip
Archive:  trial.zip
replace index.html? [y]es, [n]o, [A]ll, [N]one, [r]ename: r
new name: trailNew
  inflating: trailNew
Successfully done!

Asus@MrugankshaK MINGW64 ~
$ ./extract.sh trial.zip
Archive:  trial.zip
replace index.html? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: index.html
Successfully done!

Asus@MrugankshaK MINGW64 ~
$ ./extract.sh new.tar
Error: File 'new.tar' not found!
```