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### Part 1 (Code of Bash Shell Script)

```
#!/bin/bash
```

**//Reference :** <https://github.com/Kaid02/calculator-using-switch-case/blob/master/switchcase.c>

```
if ( ! -d backup ) then
    echo "Hello! Would you like to create a backup in your directory? [ Yes(Y)/No(N) ]"
    set input=$<

    switch ($input)
        case [y|Y]:
            mkdir backup
            exit 1
            break

        case [y][e][s]:
        case [Y][E][S]:
            mkdir backup
            exit 1
            break

        case [n|N]:
            echo "No directory was created ~ XD"
            exit 1
            break

        case [n][o]:
        case [N][O]:
            echo "No directory was created ~ XD"
            exit 1
            break

        default:
            echo "Error~ Invalid response was entered. XP "
            exit 1
            break
    endsw
endif
```

**//Reference : <http://www.cs.uregina.ca/Links/class-info/330/Shell/bckup.bash>,  
<https://bash.cyberciti.biz/guide/If..else..fi>**

```
set back=`pwd`/backup

for i in $@; do
    if [ ${i##*.} != c ] ; then
        echo "$i is not a .c program"
    endif

    else
        echo "$i is a .c program"
    fi

    echo "... checking if file ~/backup/$i is in backup"

    if ( ! -f "$back/$i" ) then
        echo "Making a new backup of $i"
        cp "$i" "$back/$i"
    endif

    if ( `cmp -s "$i" "backup/$i"` ) then
        echo "Making a new backup of $i"
        cp $i ~/backup/${i##*/}
    endif
done

echo "Finish ~ XD"
```