Shell 脚本报告

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1　脚本叙述

原脚本为输入是否为早上并对使用者回答早上好或下午好。核心思想为判断对错并进行回答，若输入的不是对或错则提示错误。新脚本旨在告诉使用者各个时间段对应的英文称呼，提升使用者在进行英文写作或沟通等情况时对于时间段的表述能力。用户运行在脚本后，只需输入时间，就能知道该时间对应的英文称呼。

1.1　原脚本代码

```bash
#!/bin/bash

echo "Is it morning? Please answer yes or no"
read timeofday
if [ "$timeofday" = "yes" ]
then
echo "Good morning"
elif [ "$timeofday" = "no" ]; then
echo "Good afternoon"
else
echo "Sorry, $timeofday not recognized. Enter yes or no"
exit 1
fi
exit 0
```

1.2 演示示例 1

```
Is it morning? Please answer yes or no
yes
Good morning
```

1.3 演示示例 2

```
Is it morning? Please answer yes or no
yes
Good morning
```

1.4 新脚本代码

```bash
#!/bin/bash

echo "Please enter time [ ab cd (00<=ab<23 00<=cd<=60)] :"
echo "example : 03 45"
read hour minute
if [ $hour = "00" ];then
echo "It is midnight."
elif [ $hour = "01" ]; then
echo "It is middle of the night."
elif [ $hour = "02" ]; then
echo "It is early morning."
elif [ $hour = "03" ]; then
echo "It is early morning."
elif [ $hour = "04" ]; then
echo "It is early morning."
elif [ $hour = "05" ]; then
echo "It is early morning."
elif [ $hour = "06" ]; then
echo "It is morning."
elif [ $hour = "07" ]; then
echo "It is morning."
```

```
elif [ $hour = "08" ]; then
echo "It is morning."
elif [ $hour = "09" ]; then
echo "It is late morning."
elif [ $hour = "10" ]; then
echo "It is late morning now."
elif [ $hour = "11" ]; then
echo "It is late morning."
elif [ $hour = "12" ]; then
echo "It is midday."
elif [ $hour = "13" ]; then
echo "It is afternoon."
elif [ $hour = "14" ]; then
echo "It is afternoon."
elif [ $hour = "15" ]; then
echo "It is afternoon."
elif [ $hour = "16" ]; then
echo "It is late afternoon."
elif [ $hour = "17" ]; then
echo "It is early evening."
elif [ $hour = "18" ]; then
echo "It is early evening."
elif [ $hour = "19" ]; then
echo "It is evening."
elif [ $hour = "20" ]; then
echo "It is evening."
elif [ $hour = "21" ]; then
echo "It is late evening."
elif [ $hour = "22" ]; then
echo "It is late evening."
elif [ $hour = "23" ]; then
echo "It is night."
else
```

```
echo "Sorry, $hour $minute not recognized."
exit 1
fi
exit 0
```

1.5 演示示例

```
Please enter time [ ab cd (00<=ab<23 00<=cd<=60)] :
example : 03 45
12 34
It is midday.
```

2 修改与心得

我对该脚本做的修改为将问候改为报时间段，输入从一个增加到两个，增加了许多elif 进行判断，从if 到elif 再到else 总计 25 条判断语句，使用者必须依照格式输入才能得到结果，否则会进行报错。其中的判断语句与源代码基本一致，只更改了内容。这次的脚本修改让我了解了shell 的输入与输出以及判断语句的写法和应用，知道了if 后要加fi 作为结束，程序介绍还要增加一个exit0，以及exit1 是作为异常退出时对操作系统的返回。