

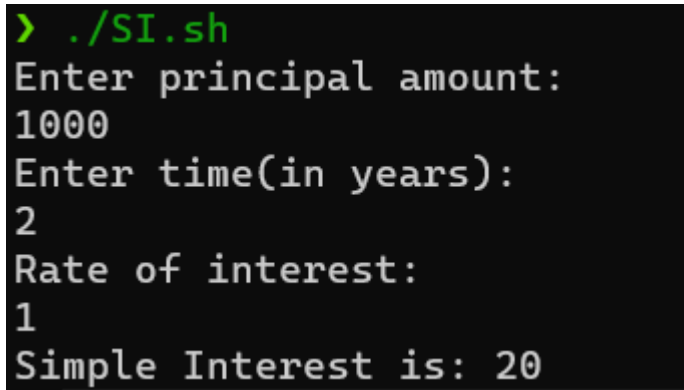
Assignment 07:

1. **Compute Amount payable given principal amount, rate of simple interest, time in years.**

Code:

```
#!/bin/bash

echo "Enter principal amount: "
read pa
echo "Enter time(in years): "
read t
echo "Rate of interest: "
read r
i=`expr $pa \* $t \* $r / 100`
echo "Simple Interest is: $i"
```

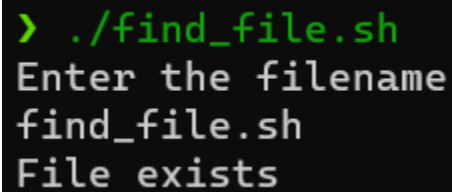
Output:

```
> ./SI.sh
Enter principal amount:
1000
Enter time(in years):
2
Rate of interest:
1
Simple Interest is: 20
```

2. Search for a file in a directory structure.**Code:**

```
#!/bin/bash

echo "Enter the filename"
read file
if test -e $file
then
echo "File exists"
else
echo "File does not exist"
fi
```

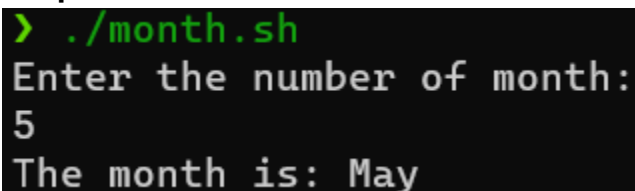
Output:A terminal window with a black background and green text. The prompt is a green greater-than sign. The user enters './find_file.sh'. The script outputs 'Enter the filename', then 'find_file.sh' (the user's input), and finally 'File exists'.

```
> ./find_file.sh
Enter the filename
find_file.sh
File exists
```

3. Create an array of strings for months of a year. Enter the number of month and display the name of month.**Code:**

```
#!/bin/bash

arr=(No_month January February March April May June July August September
October November December)
echo "Enter the number of month: "
read m
echo "The month is: "${arr[$m]}
```

Output:A terminal window with a black background and green text. The prompt is a green greater-than sign. The user enters './month.sh'. The script outputs 'Enter the number of month:', then '5' (the user's input), and finally 'The month is: May'.

```
> ./month.sh
Enter the number of month:
5
The month is: May
```