

SAHIL BISWAS

16010422013

IT A-1

OS EXPT 5

```
exam@ubuntu:~$ cal
```

```
September 2024
```

```
Su Mo Tu We Th Fr Sa
```

```
1 2 3 4 5 6 7
```

```
8 9 10 11 12 13 14
```

```
15 16 17 18 19 20 21
```

```
22 23 24 25 26 27 28
```

```
29 30
```

```
exam@ubuntu:~$ date
```

```
Mon 09 Sep 2024 04:54:05 AM EDT
```

```
exam@ubuntu:~$ echo "hello user"
```

```
hello user
```

```
exam@ubuntu:~$ gedit sahil.bash
```

```
exam@ubuntu:~$ echo $shell
```

```
exam@ubuntu:~$ echo $SHELL
```

```
/bin/bash
```

```
exam@ubuntu:~$ gedit sahil.bash
```

```
exam@ubuntu:~$ ls -l sahil.bsh
```

```
ls: cannot access 'sahil.bsh': No such file or directory
```

```
exam@ubuntu:~$ ls -l sahil.bash
```

```
-rw-rw-r-- 1 exam exam 27 Sep  9 04:57 sahil.bash
```

```
exam@ubuntu:~$ bash sahil.bash
```

```
September 2024
```

```
Su Mo Tu We Th Fr Sa
```

```
1 2 3 4 5 6 7
```

```
8 9 10 11 12 13 14
```

```
15 16 17 18 19 20 21
```

```
22 23 24 25 26 27 28
```

```
29 30
```

```
Mon 09 Sep 2024 04:58:52 AM EDT
```

```
hello user
```

```
exam@ubuntu:~$ ./sahil.bash
```

```
bash: ./sahil.bash: Permission denied
```

```
exam@ubuntu:~$ chmod +x sahil.bash
```

```
exam@ubuntu:~$ ls -l sahil.bash
```

```
-rwxrwxr-x 1 exam exam 27 Sep  9 04:57 sahil.bash
```

```
exam@ubuntu:~$ ./sahil.bash
```

```
September 2024
```

Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Mon 09 Sep 2024 05:01:04 AM EDT
hello user
exam@ubuntu:~\$

exam@ubuntu:~\$ echo \$OSTYPE
linux-gnu

exam@ubuntu:~\$ echo \$LINES
24

exam@ubuntu:~\$ echo \$COLUMNS
80

exam@ubuntu:~\$ gedit sahil.bash
exam@ubuntu:~\$ bash sahil.bash
hello
user

exam@ubuntu:~\$ gedit sahil.bash
exam@ubuntu:~\$ bash sahil.bash
hellouser
exam@ubuntu:~\$ gedit sahil.bash
exam@ubuntu:~\$ bash sahil.bash
hello user /n

exam@ubuntu:~\$ gedit sahil.bash
exam@ubuntu:~\$ bash sahil.bash
hello user

activities:

Q1.

```
a=10
echo "$a"
```

Q2.

```
exam@ubuntu:~$ gedit sahil.bash
```

```
value=Rani
echo "$value"
```

```
exam@ubuntu:~$ bash sahil.bash
Rani
```

Q3,

```
exam@ubuntu:~$ gedit sahil.bash
```

```
echo "enter any name: "
read name
echo "the value entered by user is $name"
```

```
exam@ubuntu:~$ bash sahil.bash

sahil
```

```
exam@ubuntu:~$ echo $OSTYPE  
linux-gnu
```

```
exam@ubuntu:~$ echo $SHELL  
/bin/bash
```

```
exam@ubuntu:~$ gedit sahil.bash
```

```
name="sahil biswas"  
echo "$SHELL"  
  
/bin/bash/  
echo "$OSTYPE"
```

```
date  
date +%m
```

```
09
```

```
exam@ubuntu:~$ bash sahil.bash  
/bin/bash  
linux-gnu  
Mon 09 Sep 2024 05:42:19 AM EDT  
09
```

```
Q4
```

```
exam@ubuntu:~$ gedit sahil.bash
```

```
exam@ubuntu:~$ ./sahil.bash
```

```
Sahil
```

```
013
```

```
78
```

```
Ayaan
```

```
012
```

```
74
```

```
Vedant
```

```
009
```

```
43
```

Q5.

```
exam@ubuntu:~$ gedit sahil.bash
```

```
a=10
b=20
c=$((a+b))
echo "$c"
```

```
exam@ubuntu:~$ bash sahil.bash
30
```

Q6.

```
exam@ubuntu:~$ gedit sahil.bash
```

```
echo "enter any value: "
read value
echo "the value entered by user is $value"
```

```
exam@ubuntu:~$ bash sahil.bash
enter any value:
29
the value entered by user is 29
```

```
if [ -z "$1" ]; then
    echo "Usage: $0 <seconds>"
    exit 1
fi
```

```
total_seconds=$1
hours=$((total_seconds / 3600))
minutes=$(( (total_seconds % 3600) / 60 ))
seconds=$((total_seconds % 60))
```

```
echo "$total_seconds seconds is equal to $hours hour(s), $minutes minute(s), and $seconds second(s)."
```

```
exam@ubuntu:~$ bash sahil.bash
```

```
exam@ubuntu:~$ 3661 seconds is equal to 1 hour(s), 1 minute(s), and 1 second(s).
```