Name: Maimoona Khilji

Program: BS-Data Science

Operating System – Lab 12 & Lab 13

1. Write bash command for "for loop".

for students in Maimooona Mashhood Khurram Laiba Sana
Ghuffera Ali Hassan Uzair Owais Mujtaba Mustafa Jawad

do

```
printf "%-10s %s\n" "$students" " is present"
```

done

```
maimoona@DESKTOP-3E3NBI6 × + ∨

for students in Maimooona Mashhood Khurram Laiba Sana Ghuffera Ali Hassan Uzair Owais Mujtaba Mustafa Jawad

printf "%-10s %s\n" "$students" " is present"

done

"""
""
"for_loop.sh" 4L, 163C written

4,4
```

```
👃 maimoona@DESKTOP-3E3NBI6 🗙
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/lab11$ ./for_loop.sh
Maimooona
           is present
Mashhood
           is present
Khurram
           is present
Laiba
           is present
Sana
           is present
Ghuffera
           is present
Ali
           is present
Hassan
           is present
Uzair
           is present
Owais
           is present
Mujtaba
           is present
Mustafa
           is present
Jawad
            is present
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/lab11$
```

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2. Write bash command for "While loop".

```
array=(BS-DS BS-CS BS-SE BS-E BBA BS-AF)
len=${#array[*]}
echo "IMSciences provide $len degrees. They are:"
i=0
while [ $i -lt $len ];
do
    num=$[i+1]
    echo "$num: ${array[$i]}"
    let i++
```

done

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