Operating Systems Lab 06

Submitted By:

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51169

Submitted To:

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Task 1:

```
  GNU nano 6.2                                                    namesap.c
#include <stdio.h>
int main(){
printf("Name:  Soha Ali SAP ID: 51169");
return 0;
}
```

```
student@student-virtual-machine:~$ nano
student@student-virtual-machine:~$ gcc namesap.c -o namesap
student@student-virtual-machine:~$ ./namesap
Name:  Soha Ali SAP ID: 51169student@student-virtual-machine:~$ nano
```

Task 2:

```
  GNU nano 6.2                                                    evenodd.c
#include <stdio.h>
int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
if(num%2==0){
printf("The number is even");
}else{
printf("The number is odd");
}
return 0;
}
```

```
student@student-virtual-machine:~$ nano
student@student-virtual-machine:~$ gcc evenodd.c -o evenodd
student@student-virtual-machine:~$ ./evenodd
Enter a number: 2
The number is evenstudent@student-virtual-machine:~$ ./evenodd
Enter a number: 3
The number is oddstudent@student-virtual-machine:~$ nano
```

Task 3:

```
  GNU nano 6.2                                                          factorial.c
#include <stdio.h>
int main() {
    int n;
    int i=1;
    int fact = 1;
    printf("Enter an integer: ");
    scanf("%d", &n);

    if (n < 0)
        printf("Error! Factorial of a negative number doesn't exist.");
    else {

        while (i<=n){
                fact *= i;
                i++;
}
        printf("Factorial of %d = %d", n, fact);
    }

    return 0;
}
```

```
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The number is oddstudent@student-virtual-machine:~$ nano
student@student-virtual-machine:~$ gcc factorial.c -o factorial
student@student-virtual-machine:~$ ./factorial
Enter an integer: 5
Factorial of 5 = 120student@student-virtual-machine:~$
```

Task 4:

```
  GNU nano 6.2                                                          loop.c
#include <stdio.h>
int main() {
char name[] ="Sadiqa";

for(;;){
printf("%s\n",name);
}
    return 0;
}
```

```
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```

Task 5:

```c
  GNU nano 6.2                                                    average.c
#include <stdio.h>
int main() {
int n1=2;
int n2=5;
int n3=6;

int sum = n1+n2+n3;

int avg=sum/3;

printf("Average: %d",avg);

    return 0;
}
```

```
student@student-virtual-machine:~$ nano
student@student-virtual-machine:~$ gcc average.c -o average
student@student-virtual-machine:~$ ./average
Average: 4student@student-virtual-machine:~$
```