

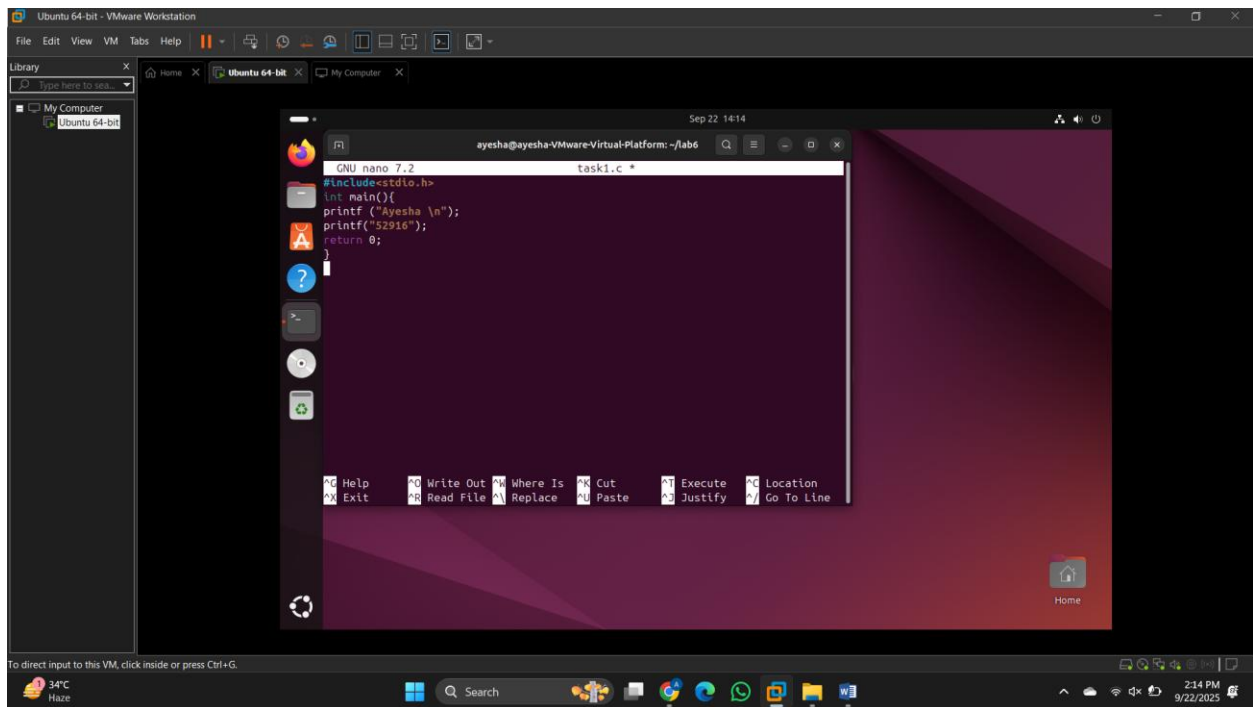
**Ayesha Zubair**

**52916**

## **Lab 6**

**Task 1:** Write a C program that print your name and sap id and Show the output.

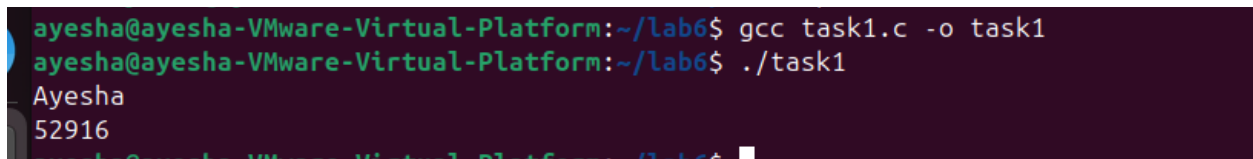
**Code:**



The screenshot shows a VMware Workstation interface with an Ubuntu 64-bit virtual machine. The terminal window is open, displaying the code for task1.c. The code is as follows:

```
GNU nano 7.2 task1.c *
#include<stdio.h>
int main(){
    printf("Ayesha \n");
    printf("52916");
    return 0;
}
```

**Output:**

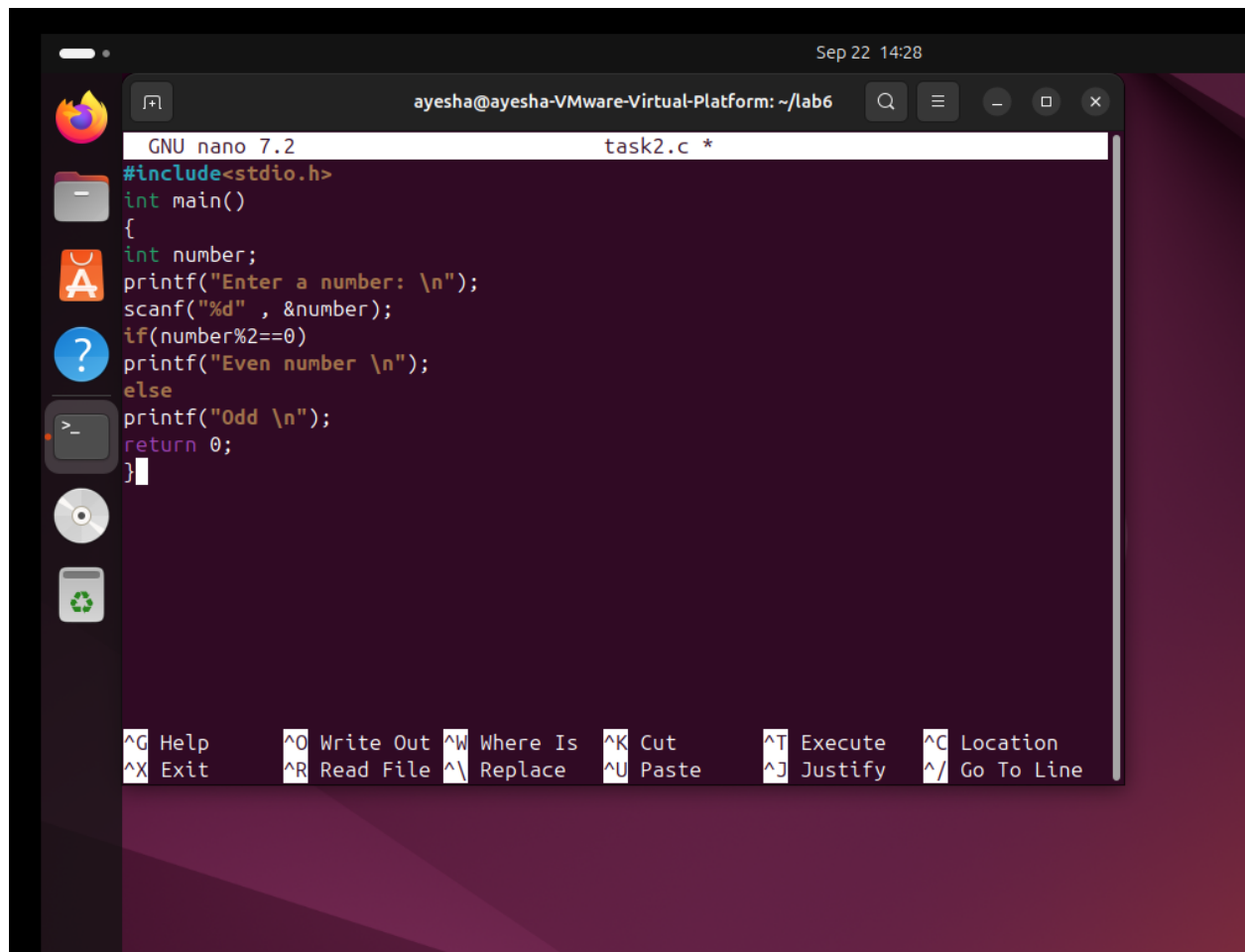


The screenshot shows the terminal output of the C program. The commands and output are as follows:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ gcc task1.c -o task1
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ ./task1
Ayesha
52916
```

**Task 2:** Write a C program that asks the user to enter a number and determine whether the number entered is even or odd. Show the output.

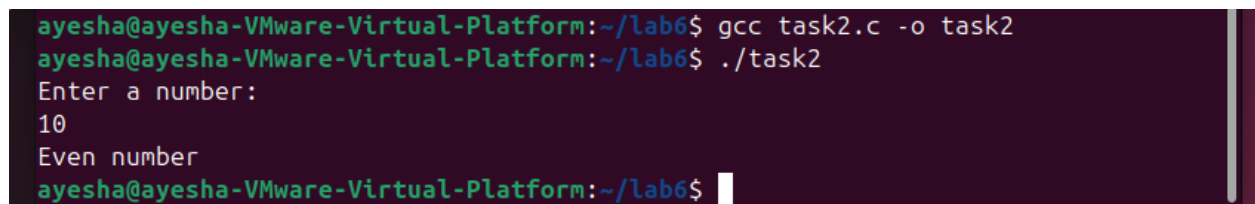
**Code:**



```
GNU nano 7.2 task2.c *
#include<stdio.h>
int main()
{
    int number;
    printf("Enter a number: \n");
    scanf("%d", &number);
    if(number%2==0)
        printf("Even number \n");
    else
        printf("Odd \n");
    return 0;
}
```

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location  
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^\_ Go To Line

### Output:



```
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ gcc task2.c -o task2
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ ./task2
Enter a number:
10
Even number
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$
```

**Task 3:** Write a C program to calculate the factorial of a number using a while loop take a number from user.

### Code:

```
GNU nano 7.2 task3.c
#include<stdio.h>
int main()
{
    int number;
    printf("Enter a number : \n");
    scanf("%d", &number);

    int i=1, factorial=1;

    while(i<=number)
    {
        factorial*=i;
        i++;
    }

    printf("Factorial is : %d ", factorial);
    return 0;
}
```

[ Read 18 lines ]

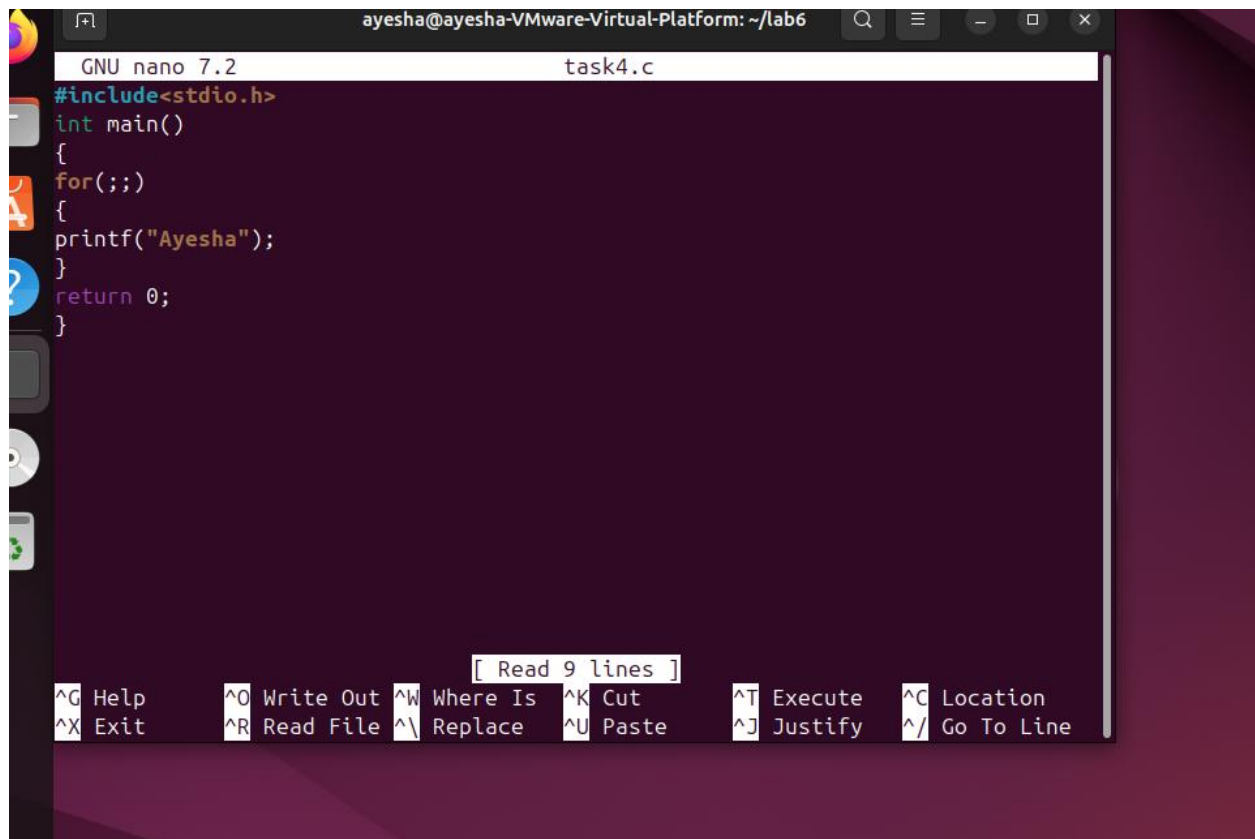
<b>^G</b> Help	<b>^O</b> Write Out	<b>^W</b> Where Is	<b>^K</b> Cut	<b>^T</b> Execute	<b>^C</b> Location
<b>^X</b> Exit	<b>^R</b> Read File	<b>^I</b> Replace	<b>^U</b> Paste	<b>^J</b> Justify	<b>^_</b> Go To Line

### Output:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ gcc task3.c -o task3
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ ./task3
Enter a number :
3
Factorial is : 6 ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ pico task3.c
```

**Task 4:** Write a C program that uses an infinite for loop to print a name continuously.

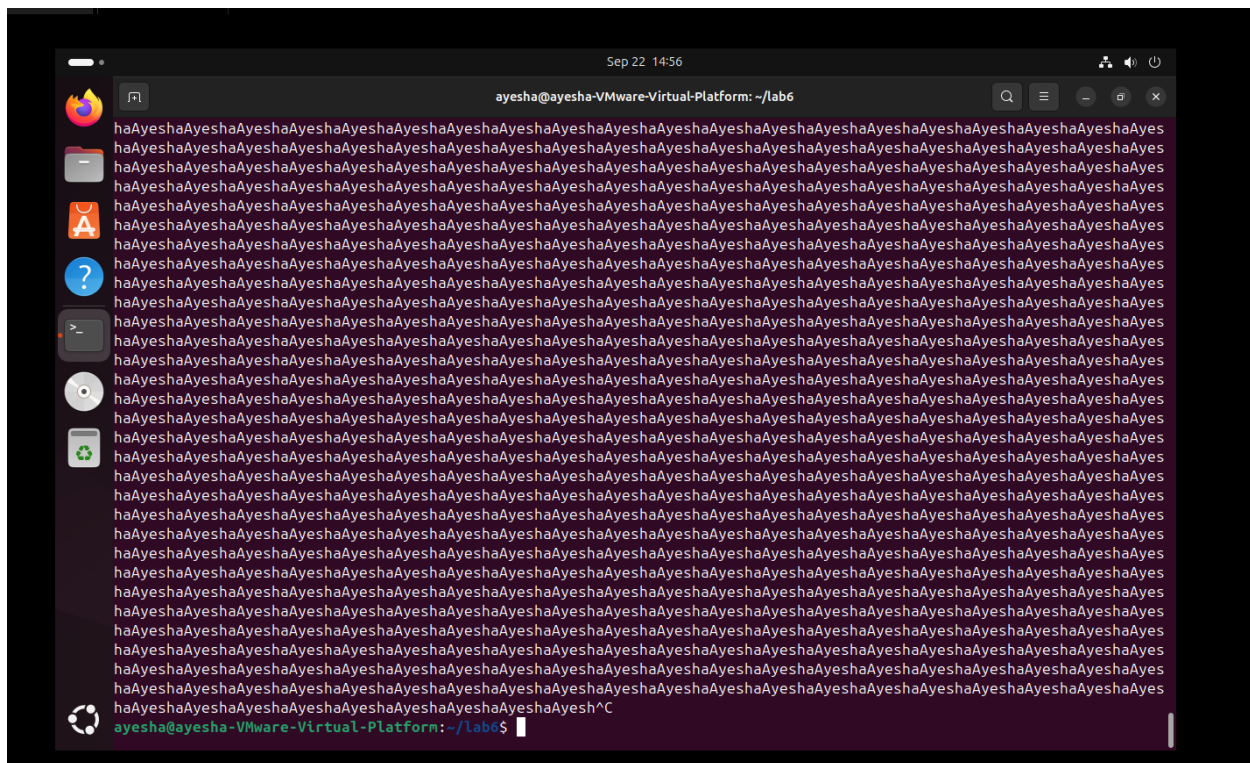
### Code:



```
ayesha@ayesha-VMware-Virtual-Platform: ~/lab6
GNU nano 7.2 task4.c
#include<stdio.h>
int main()
{
for(;;)
{
printf("Ayesha");
}
return 0;
}

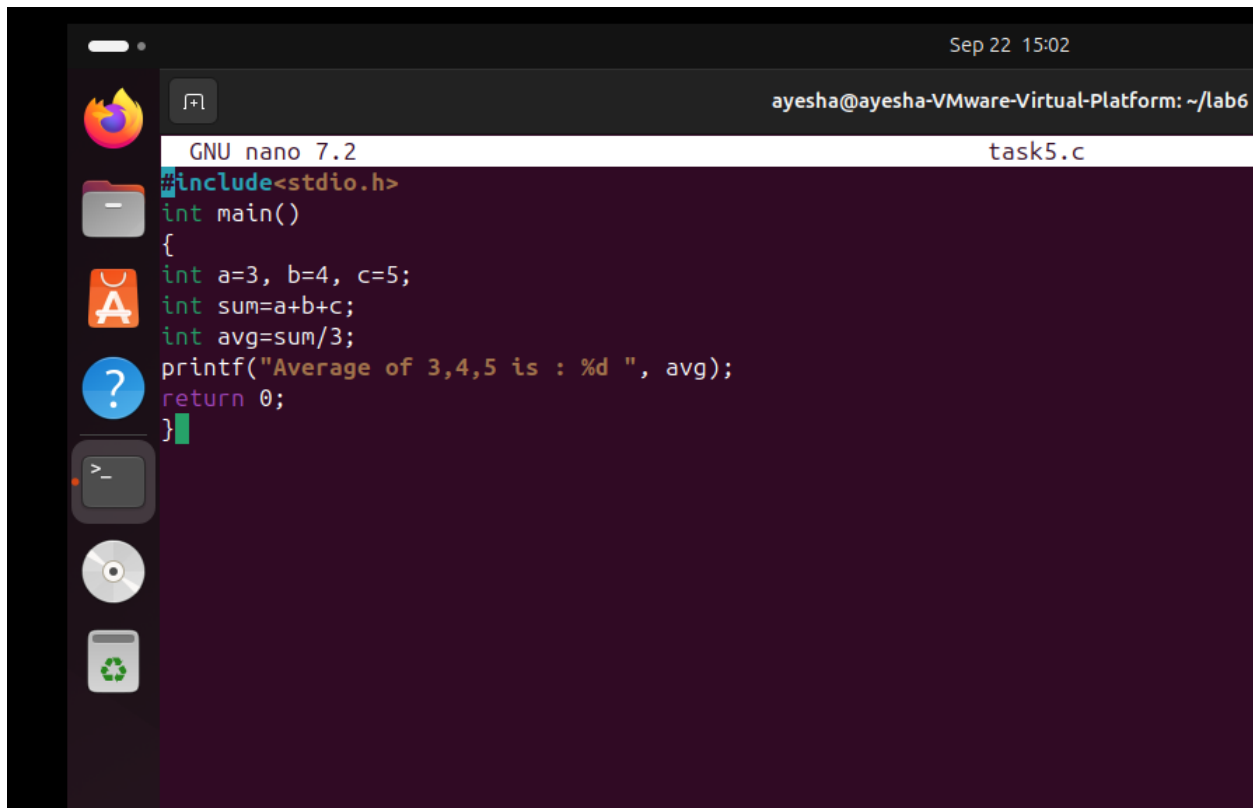
[ Read 9 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut      ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace  ^U Paste    ^J Justify  ^/ Go To Line
```

**Output:**



**Task 5:** Write a program to print average of three numbers in c program.

**Code:**



```
ayesha@ayesha-VMware-Virtual-Platform: ~/lab6
GNU nano 7.2 task5.c
#include<stdio.h>
int main()
{
int a=3, b=4, c=5;
int sum=a+b+c;
int avg=sum/3;
printf("Average of 3,4,5 is : %d ", avg);
return 0;
}
```

## Output:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ gcc task5.c -o task5
ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ ./task5
Average of 3,4,5 is : 4 ayesha@ayesha-VMware-Virtual-Platform:~/lab6$ pico task5.c
```