NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

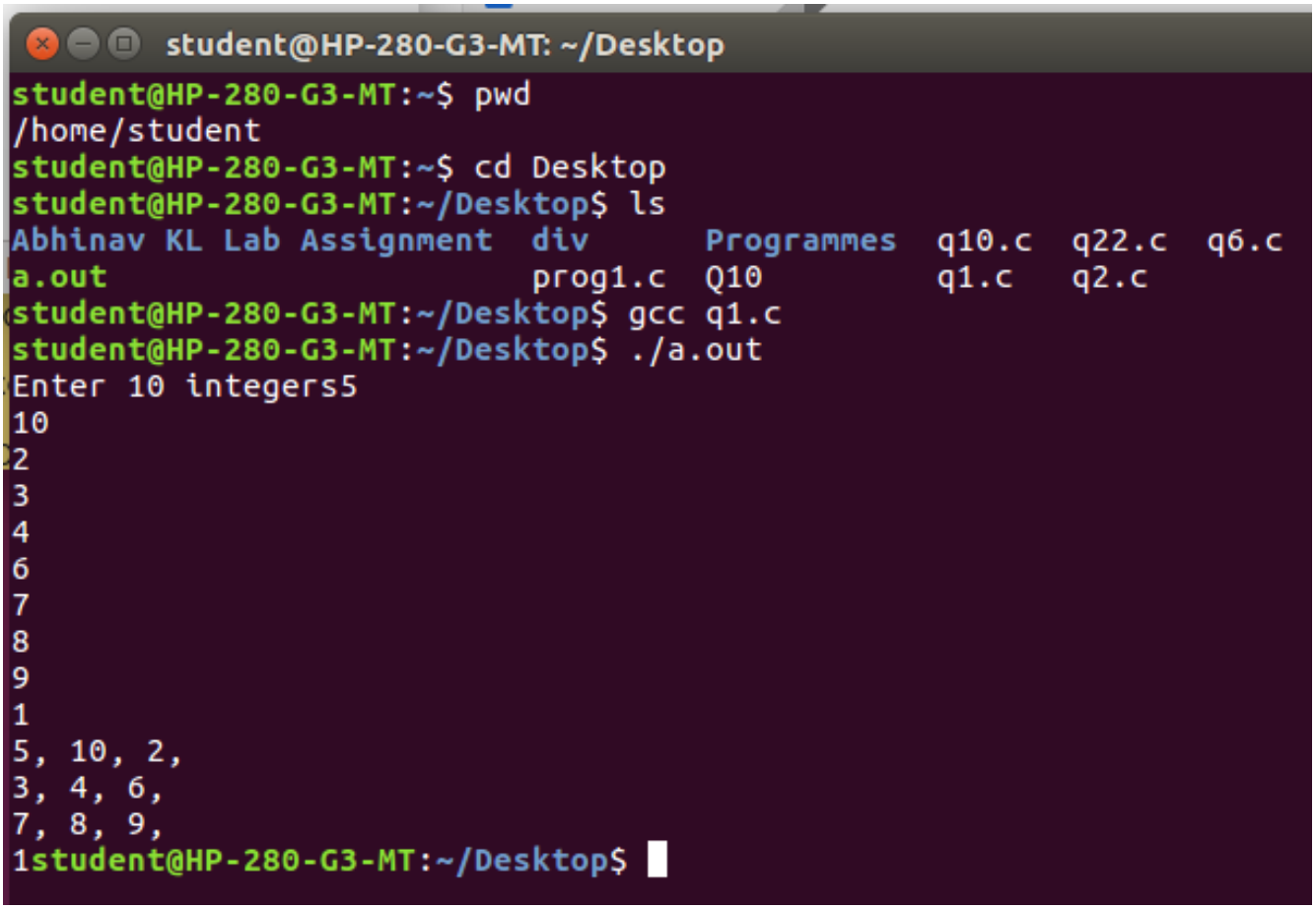
PRACTICE LAB ASSIGNMENT 2

1. Write a program to read 10 integers. Display these numbers by printing three numbers in a line separated by commas.

CODE

```
#include<stdio.h>
int main()
{
int a, b, c, d, e, f, g, h, i, j;
printf("Enter 10 integers")/a, b, c, d, e, f, g, h, i, j;
scanf("%d%d%d%d%d%d%d%d%d%d", &a, &b, &c, &d, &e, &f, &g, &h, &i, &j);
printf("%d, %d, %d, \n%d, %d, %d, \n%d, %d, %d, \n%d", a, b, c, d, e, f, g, h, i, j);
return 0;
}
```

SS of the OUTPUT

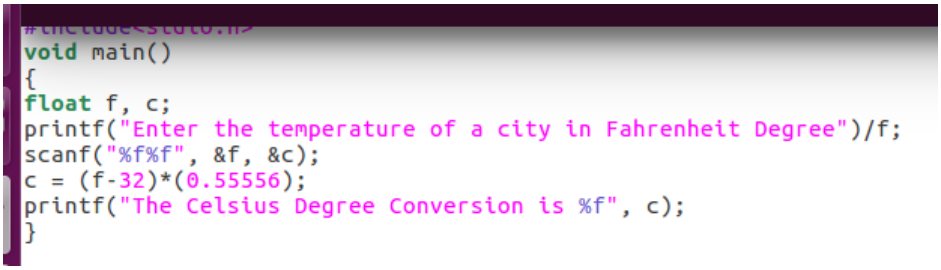


NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

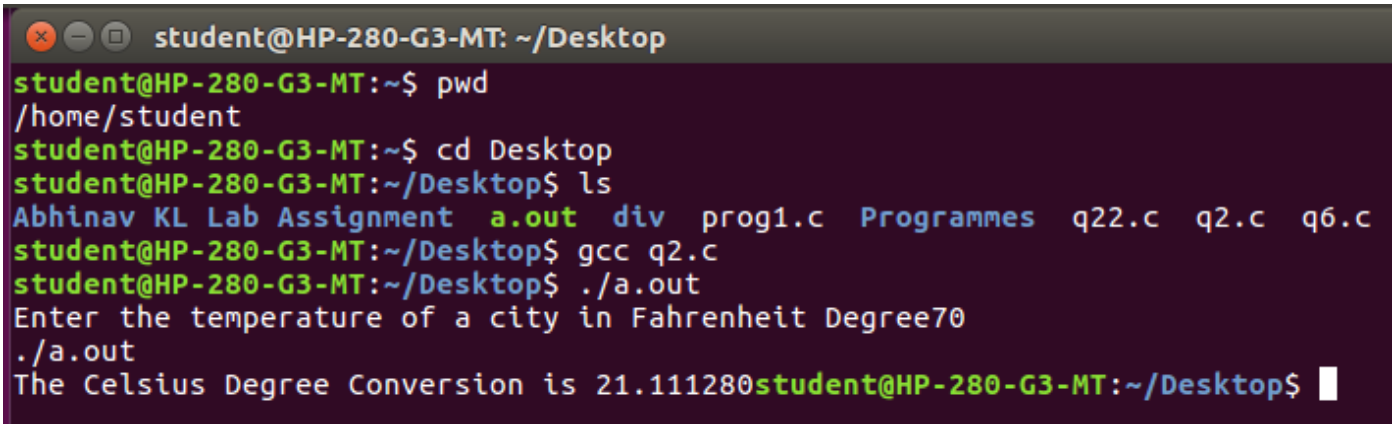
2. WAP to enter the temperature of a city in Fahrenheit Degree and convert it into Centigrade Degrees.

CODE

```
#include<stdio.h>

void main()

{

float f, c;

printf("Enter the temperature of a city in Fahrenheit Degree")/f;

scanf("%f%f", &f, &c);

c = (f-32)*(0.55556);

printf("The Celsius Degree Conversion is %f", c);

}
```



SS of the OUTPUT



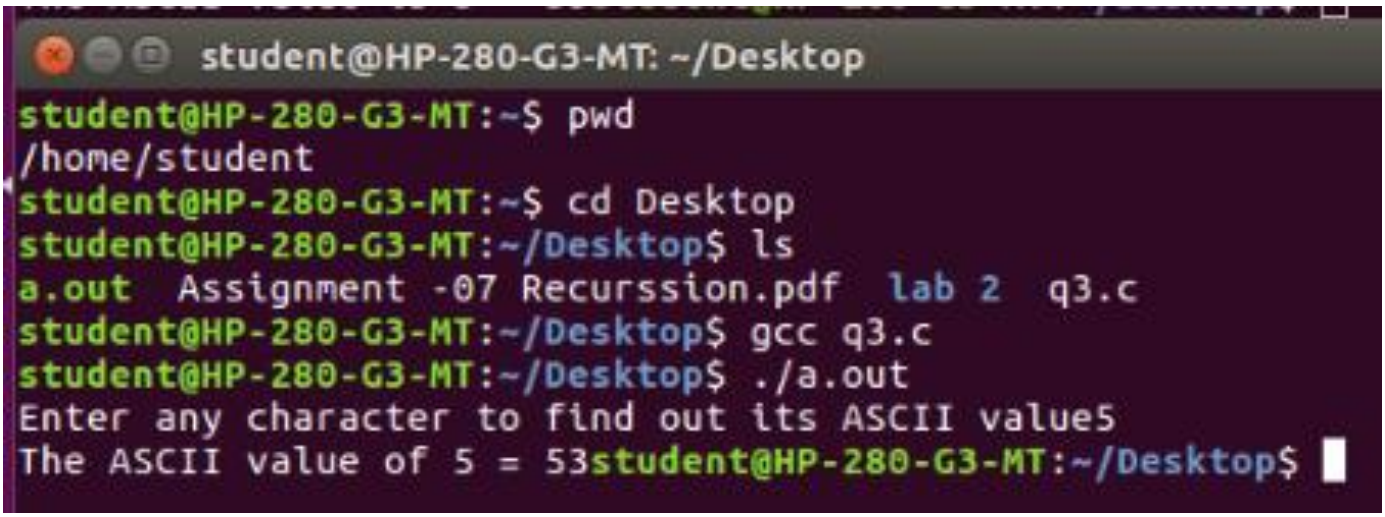
NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

3. WAP to print the ASCII value of a character that is being entered by the user.

CODE

```
#include<stdio.h>

int main()

{

char c;

printf("Enter any character to find out its ASCII value")/c;

scanf("%c", &c);

printf("The ASCII value of %c = %d", c, c);

return 0;

}
```

SS of the OUTPUT



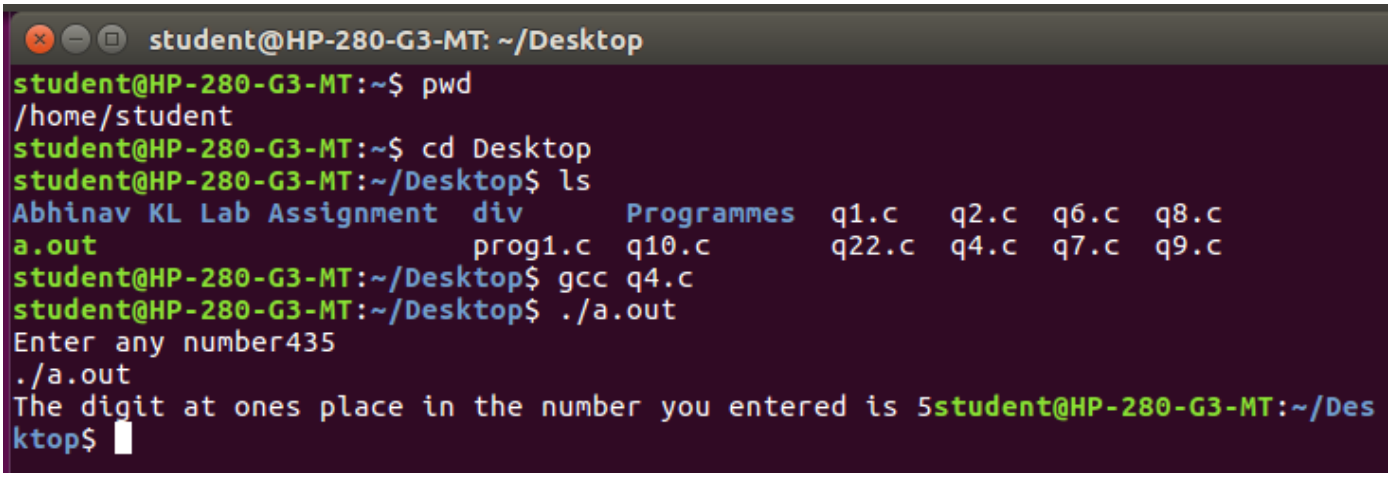
NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

4. WAP to print the digit at one's place in any number entered by the user.

CODE

```
#include<stdio.h>

int main()

{

int n, a;

printf("Enter any number")/n;

scanf("%d%d", &n, &a);

a = n%10;

printf("The digit at ones place in the number you entered is %d", a);

return 0;

}
```

SS of the OUTPUT

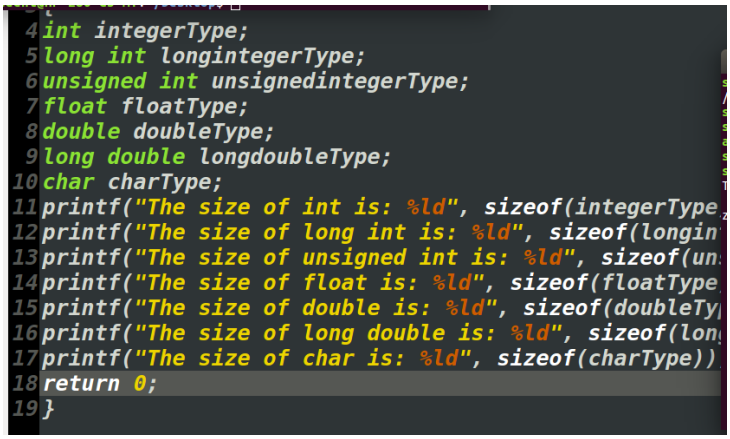


NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

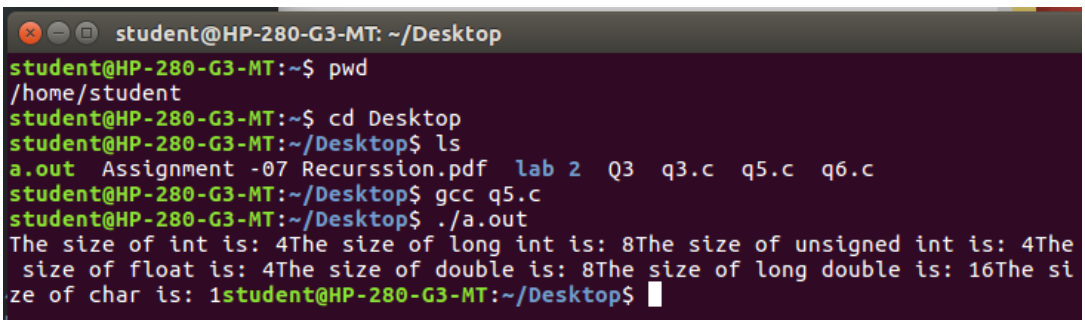
5. WAP that displays the size of every data type (int, long int, unsigned int, float, double, long double, char).

CODE

```
#include<stdio.h>

int main()

{

int integerType;

long int longintegerType;

unsigned int unsignedintegerType;

float floatType;

double doubleType;

long double longdoubleType;

char charType;

printf("The size of int is: %ld", sizeof(integerType));

printf("The size of long int is: %ld", sizeof(longintegerType));

printf("The size of unsigned int is: %ld", sizeof(unsignedintegerType));

printf("The size of float is: %ld", sizeof(floatType));

printf("The size of double is: %ld", sizeof(doubleType));

printf("The size of long double is: %ld", sizeof(longdoubleType));

printf("The size of char is: %ld", sizeof(charType));

return 0;

}
```



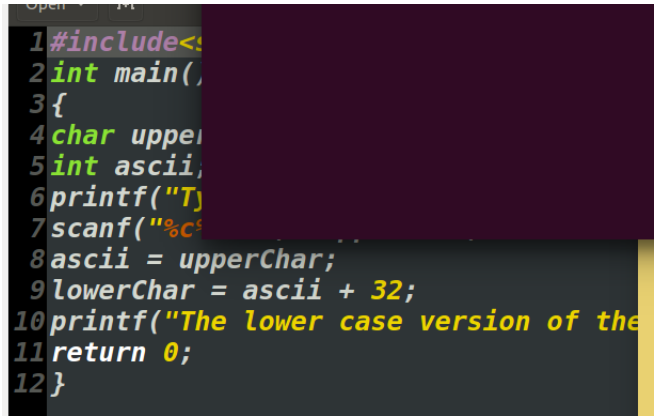
SS of the OUTPUT



NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

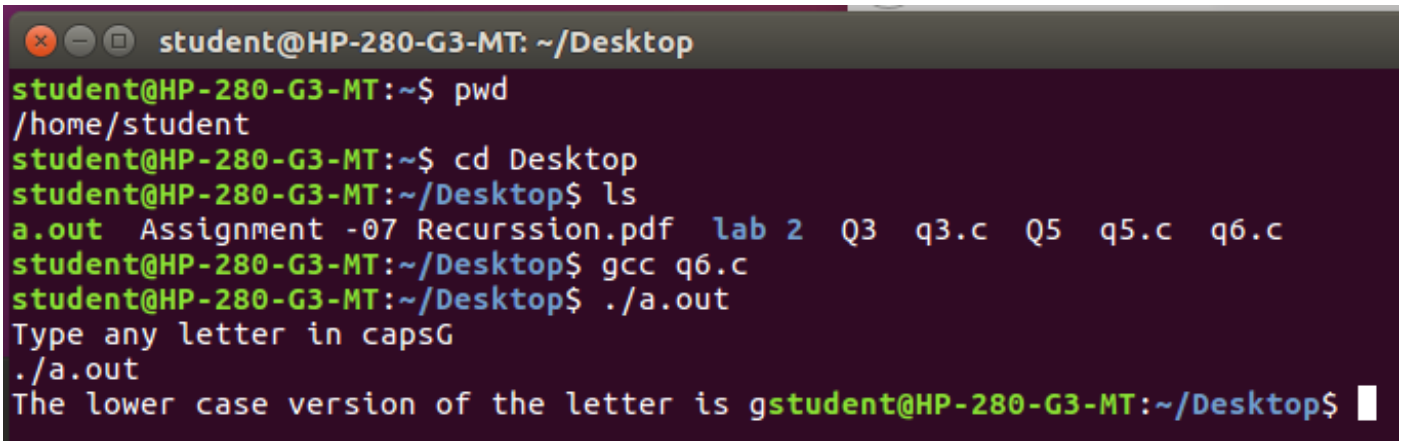
6. Write a program to read a character in upper case and then print it in lower case.

CODE




```
#include<stdio.h>

int main()

{

char upperChar, lowerChar;

int ascii;

printf("Type any letter in caps")/upperChar;

scanf("%c%c%d", &upperChar, &lowerChar, &ascii);

ascii = upperChar;

lowerChar = ascii + 32;

printf("The lower case version of the letter is %c", lowerChar);

return 0;

}
```

SS of the OUTPUT



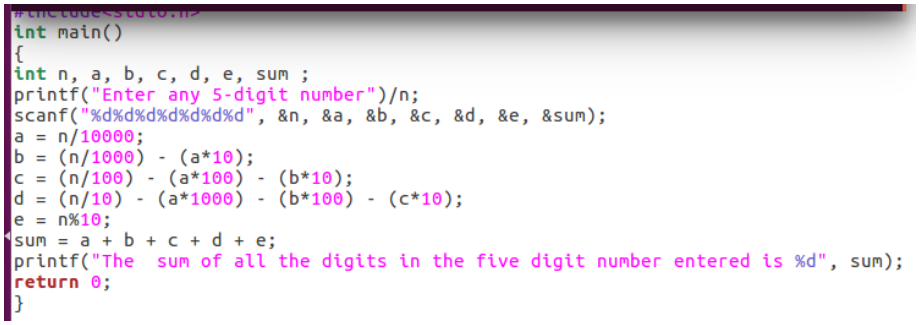
NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

7. Write a program to calculate the sum of all the digits in a number. A number must be a five-digit number only.

For Example: If input number = 12345

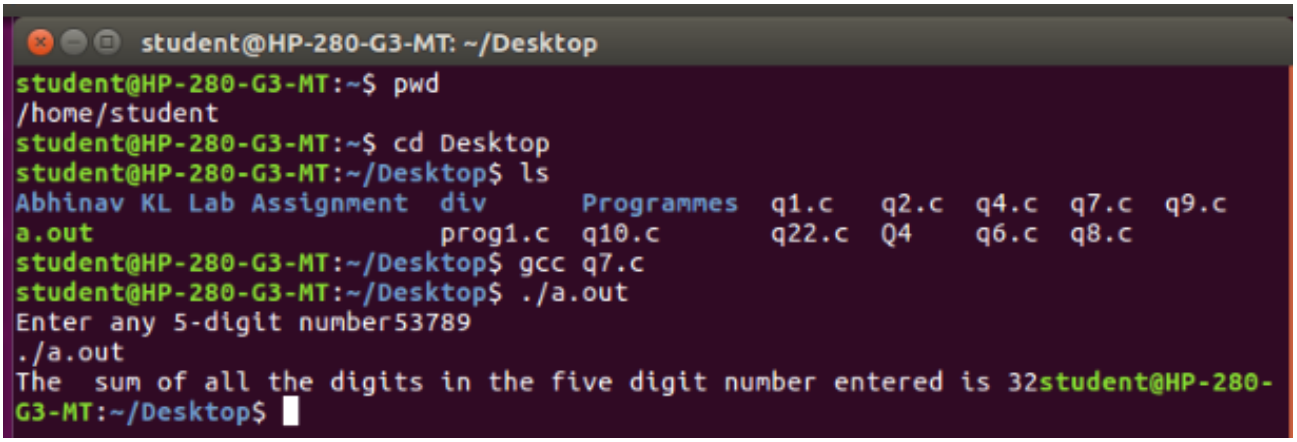
Output: 15

CODE



```
#include<stdio.h>

int main()

{

int n, a, b, c, d, e, sum ;

printf("Enter any 5-digit number")/n;

scanf("%d%d%d%d%d%d%d", &n, &a, &b, &c, &d, &e, &sum);

a = n/10000;

b = (n/1000) - (a*10);

c = (n/100) - (a*100) - (b*10);

d = (n/10) - (a*1000) - (b*100) - (c*10);

e = n%10;

sum = a + b + c + d + e;

printf("The  sum of all the digits in the five digit number entered is %d", sum);

return 0;

}
```

SS of the OUTPUT

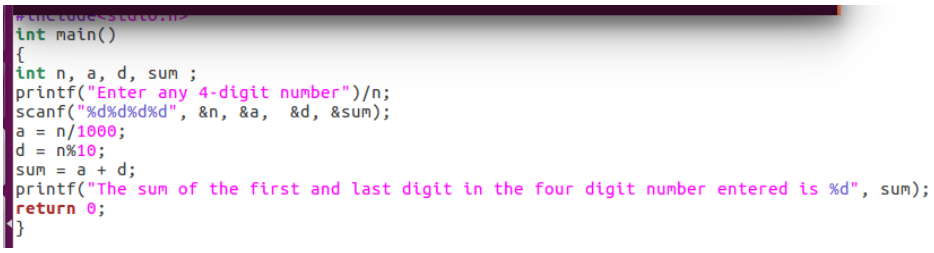


```
student@HP-280-G3-MT: ~/Desktop
student@HP-280-G3-MT:~$ pwd
/home/student
student@HP-280-G3-MT:~$ cd Desktop
student@HP-280-G3-MT:~/Desktop$ ls
Abhinav KL Lab Assignment  div       Programmes  q1.c   q2.c  q4.c  q7.c  q9.c
a.out                      prog1.c   q10.c       q22.c  Q4    q6.c  q8.c
student@HP-280-G3-MT:~/Desktop$ gcc q7.c
student@HP-280-G3-MT:~/Desktop$ ./a.out
Enter any 5-digit number53789
./a.out
The  sum of all the digits in the five digit number entered is 32student@HP-280-
G3-MT:~/Desktop$
```

NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

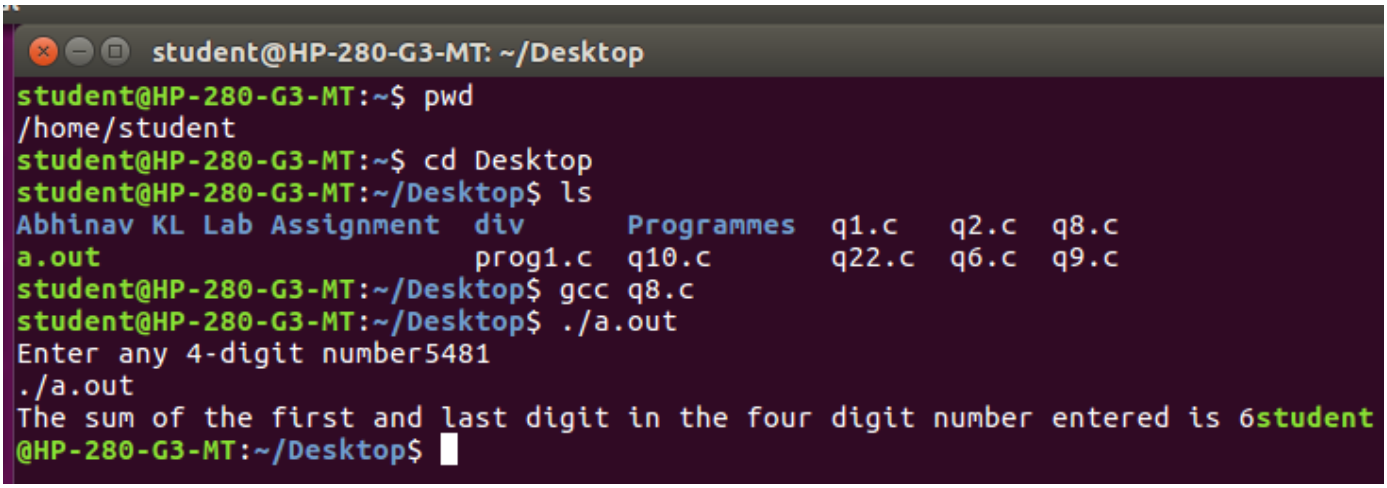
8. If a four-digit number is input through the keyboard, write a program to obtain the sum of the first and last digit of this number.

CODE



```
#include<stdio.h>

int main()

{

int n, a, d, sum ;

printf("Enter any 4-digit number")/n;

scanf("%d%d%d%d", &n, &a,  &d, &sum);

a = n/1000;

d = n%10;

sum = a + d;

printf("The sum of the first and last digit in the four digit number entered is %d", sum);

return 0;

}
```

SS of the OUTPUT

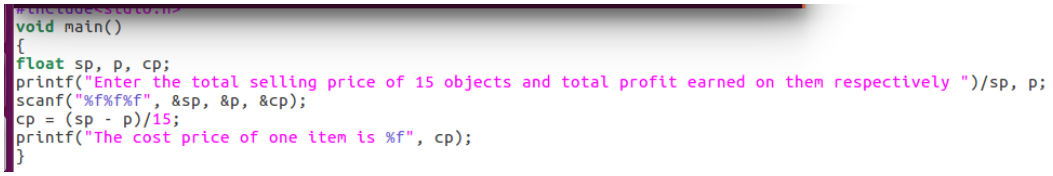


NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

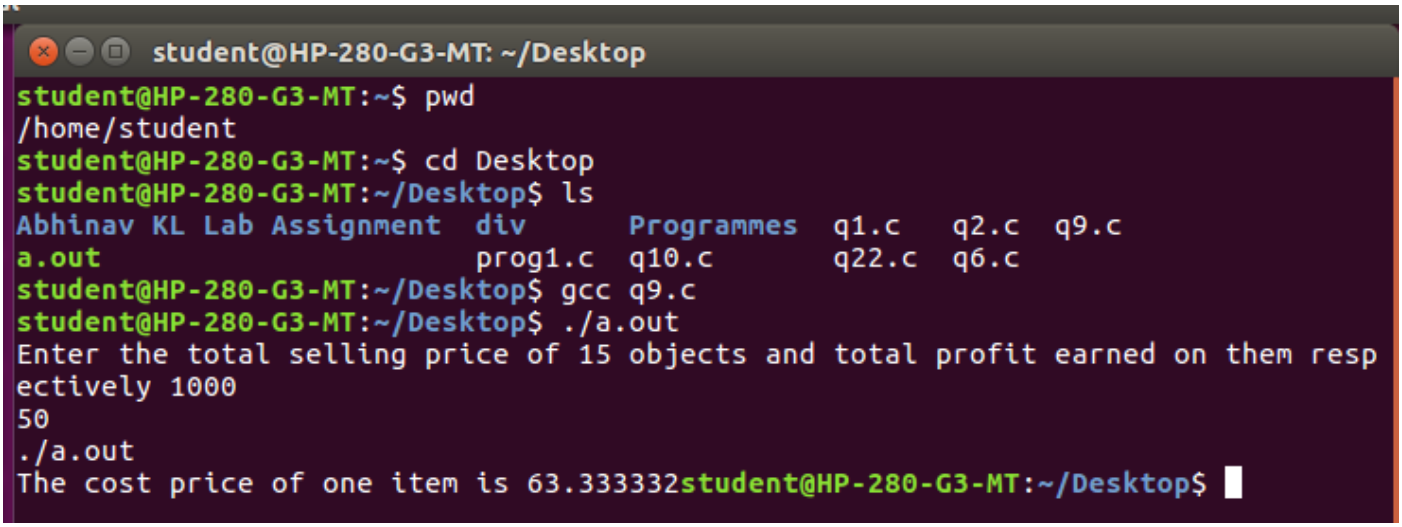
9. If the total selling price of 15 items and the total profit earned on them is input through the keyboard, write a program to find the cost price of one item.

CODE

```
#include<stdio.h>

void main()

{

float sp, p, cp;

printf("Enter the total selling price of 15 objects and total profit earned on them respectively ")/sp, p;

scanf("%f%f%f", &sp, &p, &cp);

cp = (sp - p)/15;

printf("The cost price of one item is %f", cp);

}
```



SS of the OUTPUT



NAME: REYA JESLYN SAHAYA SAMUEL
ROLL NO.: 2210110505

10.The distance between two cities (in km.) is input through the keyboard. Write a program to convert and print this distance in meters, feet, inches and centimeters.

CODE

```
#include<stdio.h>

void main()

{

float n, m, f, i, cm;

printf("Enter the distance between two cities in kilometres")/n;

scanf("%f%f%f%f%f", &n, &m, &f, &i, &cm);

m = n * 1000;

f = n * 3280.8399;

i = n * 39370.0787;

cm = n * 100000;

printf("The distance in metres is %f \nThe distance in feet is %f \nThe distance in inches is %f \nThe distance in centimetres is %f", m, f, i, cm);

}
```

SS of the OUTPUT

```
student@HP-280-G3-MT: ~/Desktop
student@HP-280-G3-MT:~$ pwd
/home/student
student@HP-280-G3-MT:~$ cd Desktop
student@HP-280-G3-MT:~/Desktop$ ls
Abhinav KL Lab Assignment  div      Programmes  q1.c   q2.c
a.out                      prog1.c  q10.c       q22.c  q6.c
student@HP-280-G3-MT:~/Desktop$ gcc q10.c
student@HP-280-G3-MT:~/Desktop$ ./a.out
Enter the distance between two cities in kilometres5
./a.out
The distance in metres is 5000.000000
The distance in feet is 16404.199219
The distance in inches is 196850.390625
The distance in centimetres is 500000.000000student@HP-280-G3-MT:~/Desktop$
```