**Error Detection and Handling assignments**

1. WAP to read atleast 2 designation strings from the user. Using assert validate

i. Count of received designation strings

ii. Value of each string as one of {“E2”, “E3”, “E4”}

Failure of any of tested condition in i) or ii) should terminate program. On success should display the received valid designations

A black screen with red and blue text

Description automatically generated

A black screen with white text

Description automatically generated

2. Refer the code below. Modify code to use assert instead of if else. Add main and invoke function() and test it

void function(int x)

{

float fx;

if (x==0)

{

printf("Division by Zero is not allowed");

fprintf(stderr, "Division by zero! Exiting...\n");

exit(EXIT\_FAILURE);

}

else

{

fx = 10 / x;

printf("f(x) is: %.5f", fx);

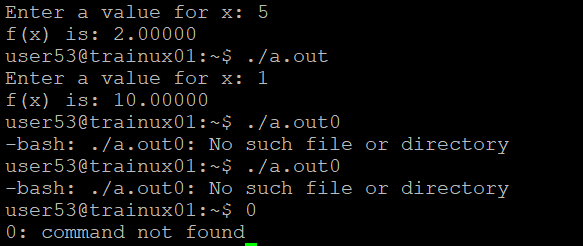
}

}

A screen shot of a computer program

Description automatically generated

OUTPUT:



We should use assert in the place of if else to handle the division by zero case. The program will terminate with an assertion failure if x is zero, ensuring that division by zero is prevented.