**Function Pointer assignments**

1. WAP to invoke functions below based on user input character using function pointer. Character mapping and respective functions to be invoked are given below.

Character input Function

+ int add(int x, int y)

- int sub(int x, int y)

\* int multiply(int x, int y)

/ int divide(int x, int y)



A screenshot of a computer program

Description automatically generated

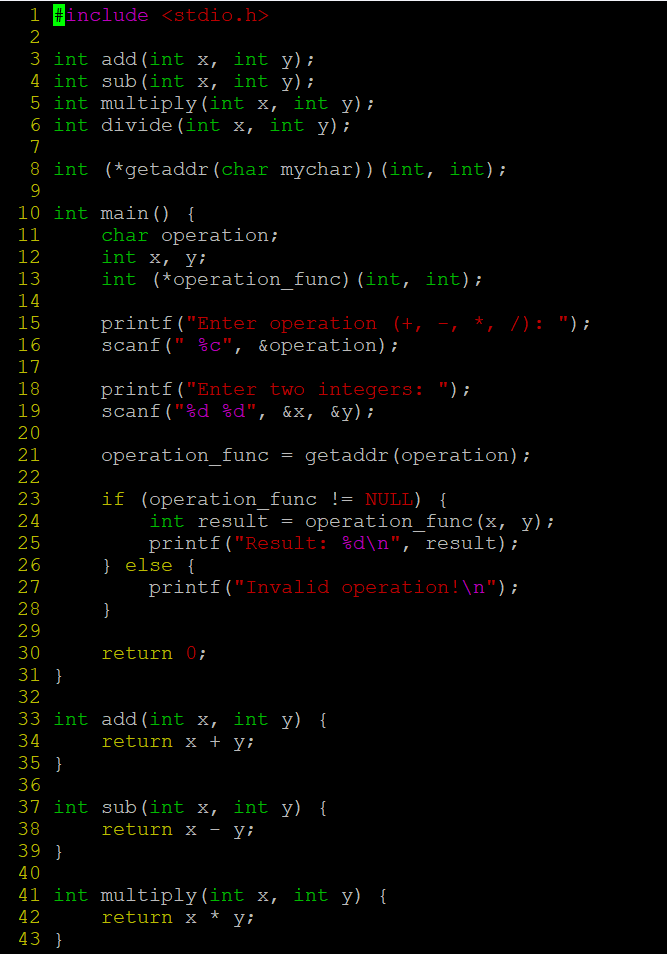
OUTPUT:

A screen shot of a computer

Description automatically generated

2. Extend Q1 to include a function below which will return the address of a function based on input character.

<address of function> getaddr(char mychar);



A screen shot of a computer program

Description automatically generated

3. Extend Q1 to include a function below which takes a function pointer to a calculator function and one integer (value = 10) as arguments and shall invoke the given function with required arguments. For the second argument read input from user. Return the result.

int invokefunc(<function pointer as argument1>, int val1);



A computer screen shot of colorful text

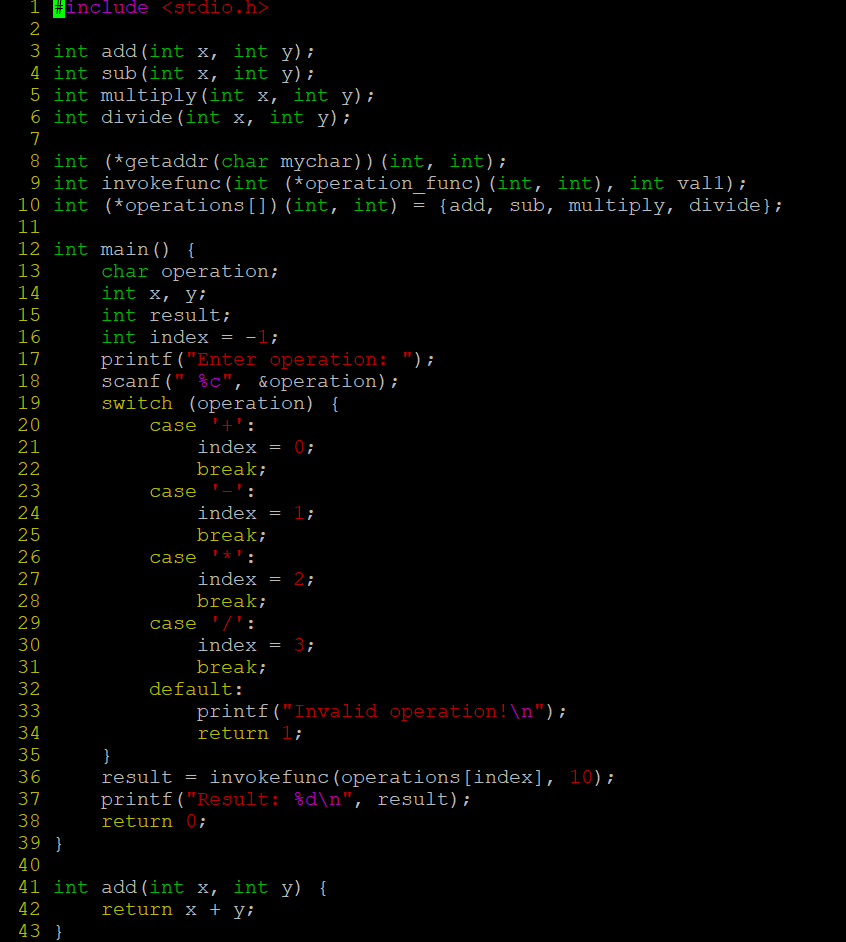
Description automatically generated

OUTPUT:

A screen shot of a computer

Description automatically generated

4. Extend Q1 to define an array of function pointers and invoke them based user input character.



A computer screen shot of a program code

Description automatically generated

OUTPUT:

A black background with white text

Description automatically generated