Module -1

Logic Building and Problem Solving

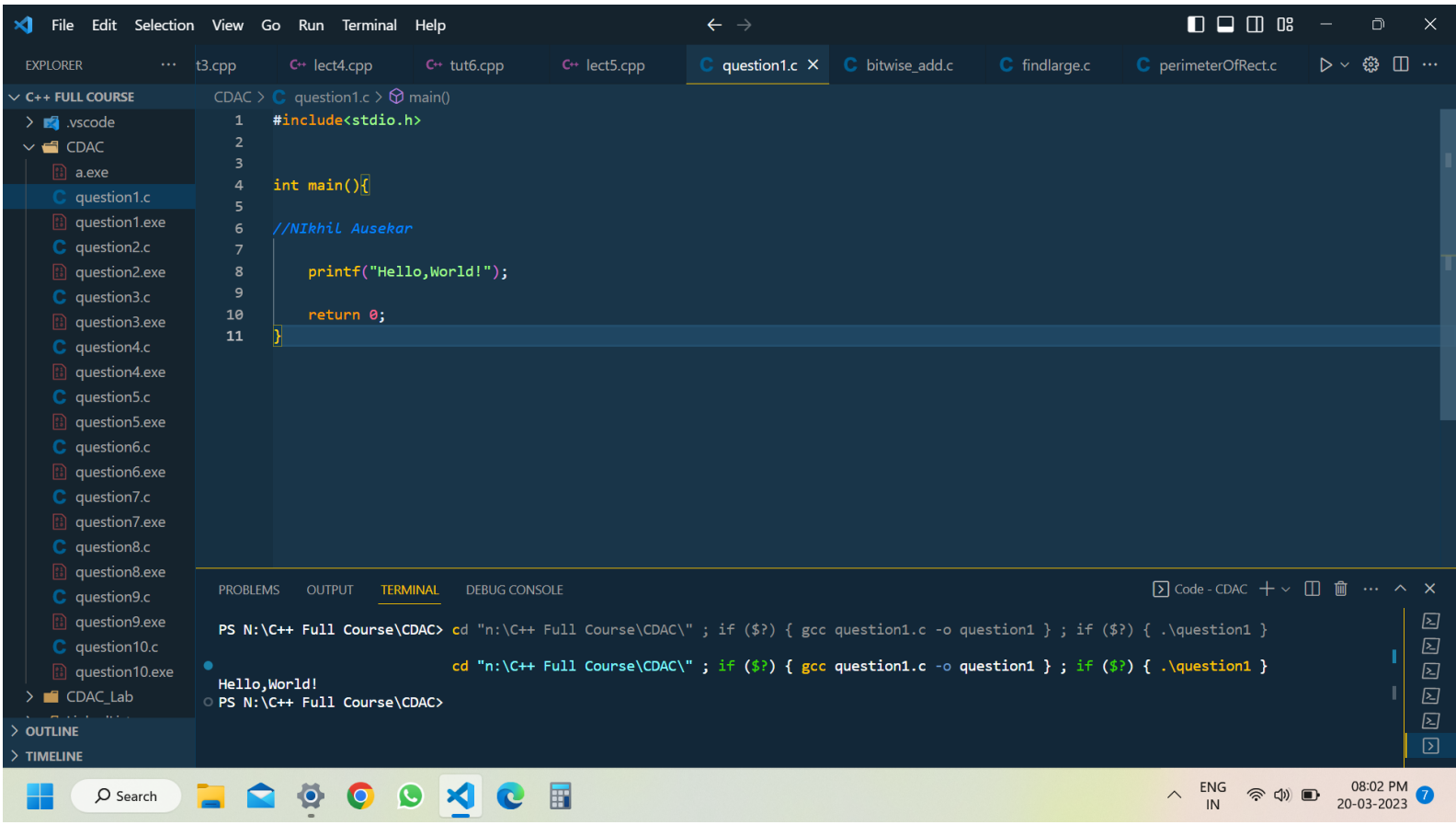
Assignment No. 1

Name: Nikhil Shivshankar Ausekar

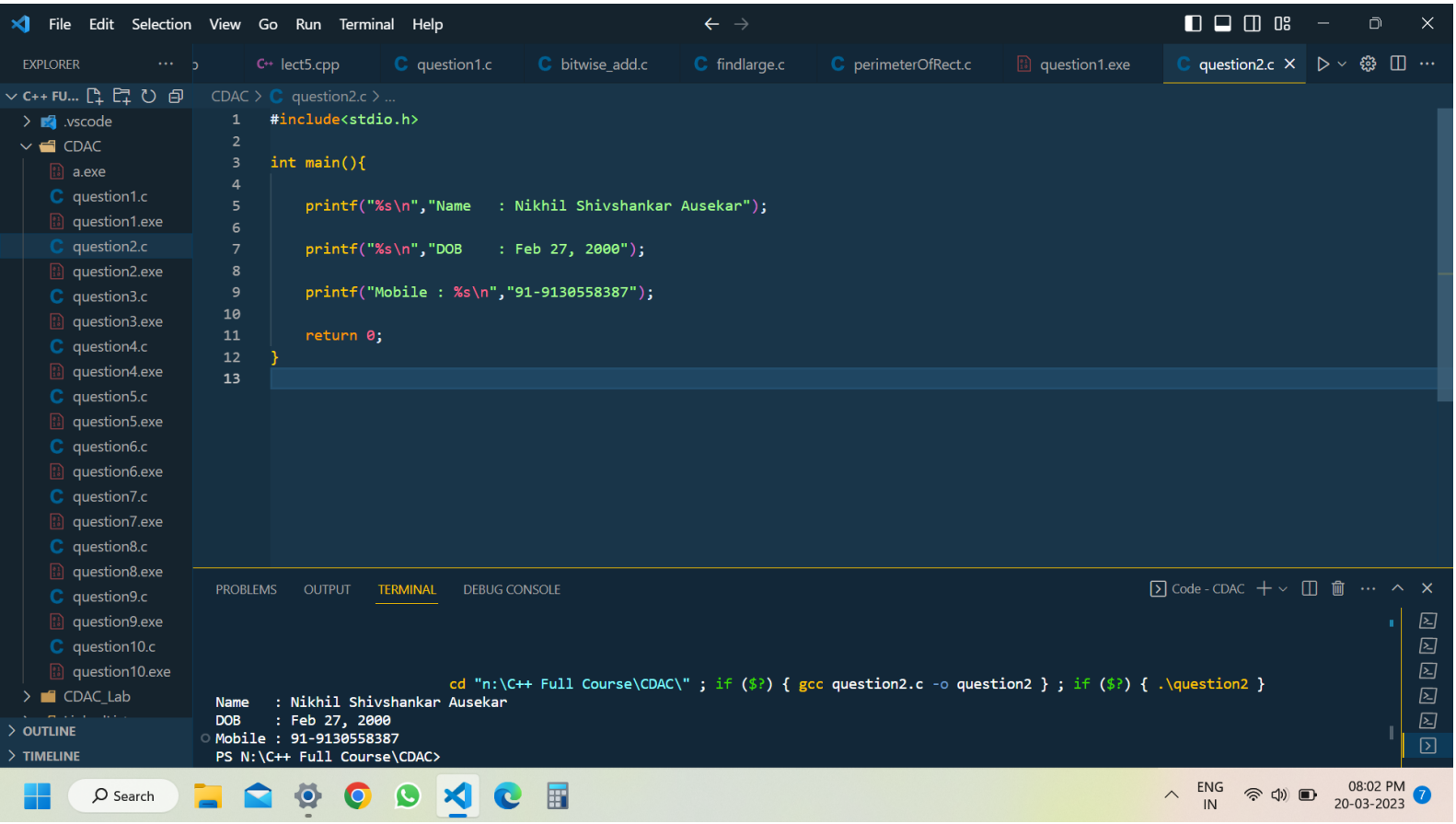
Batch: C-DAC, 17 Mar 2023

PRN : 230350320068

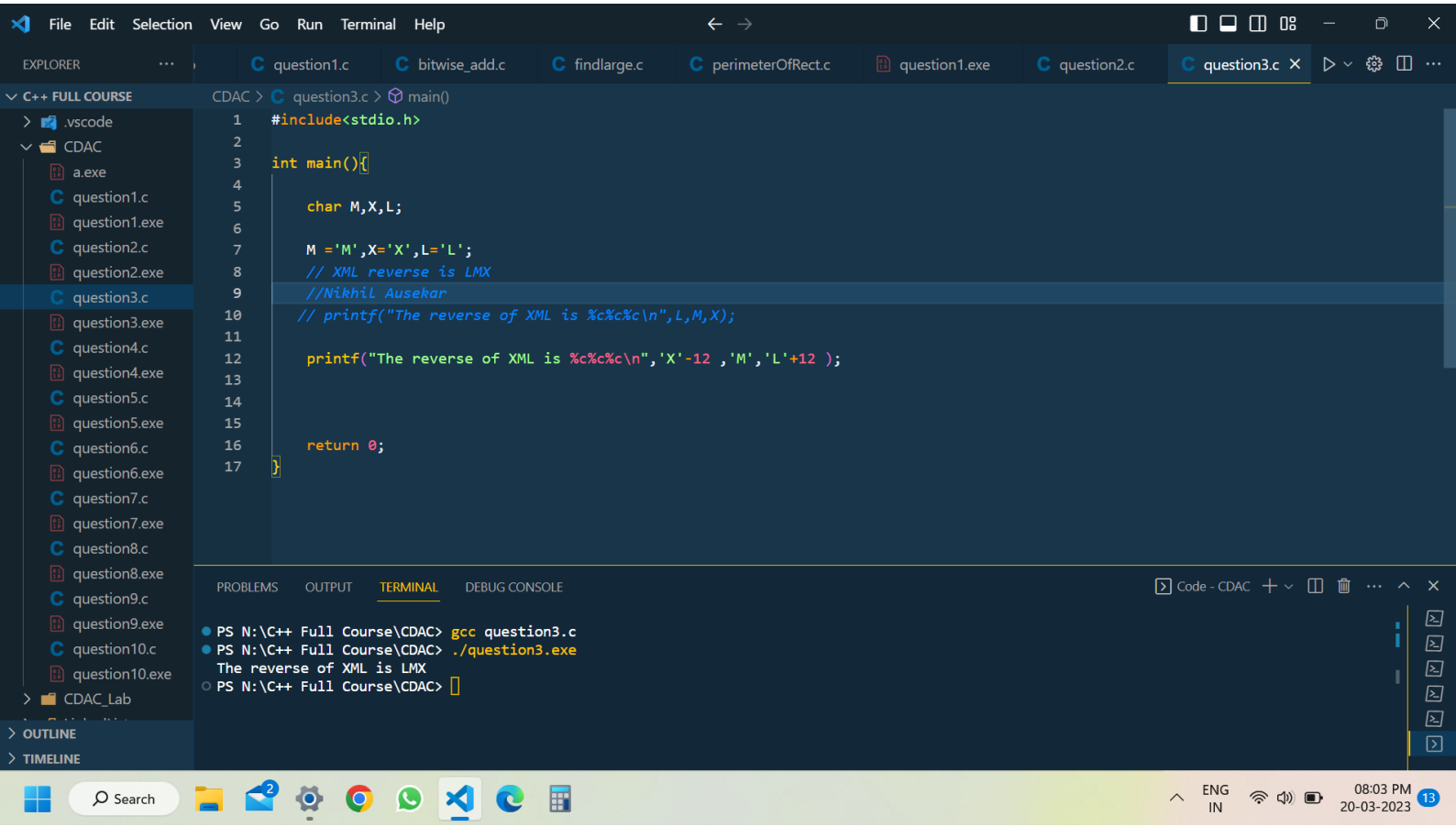
Q1.



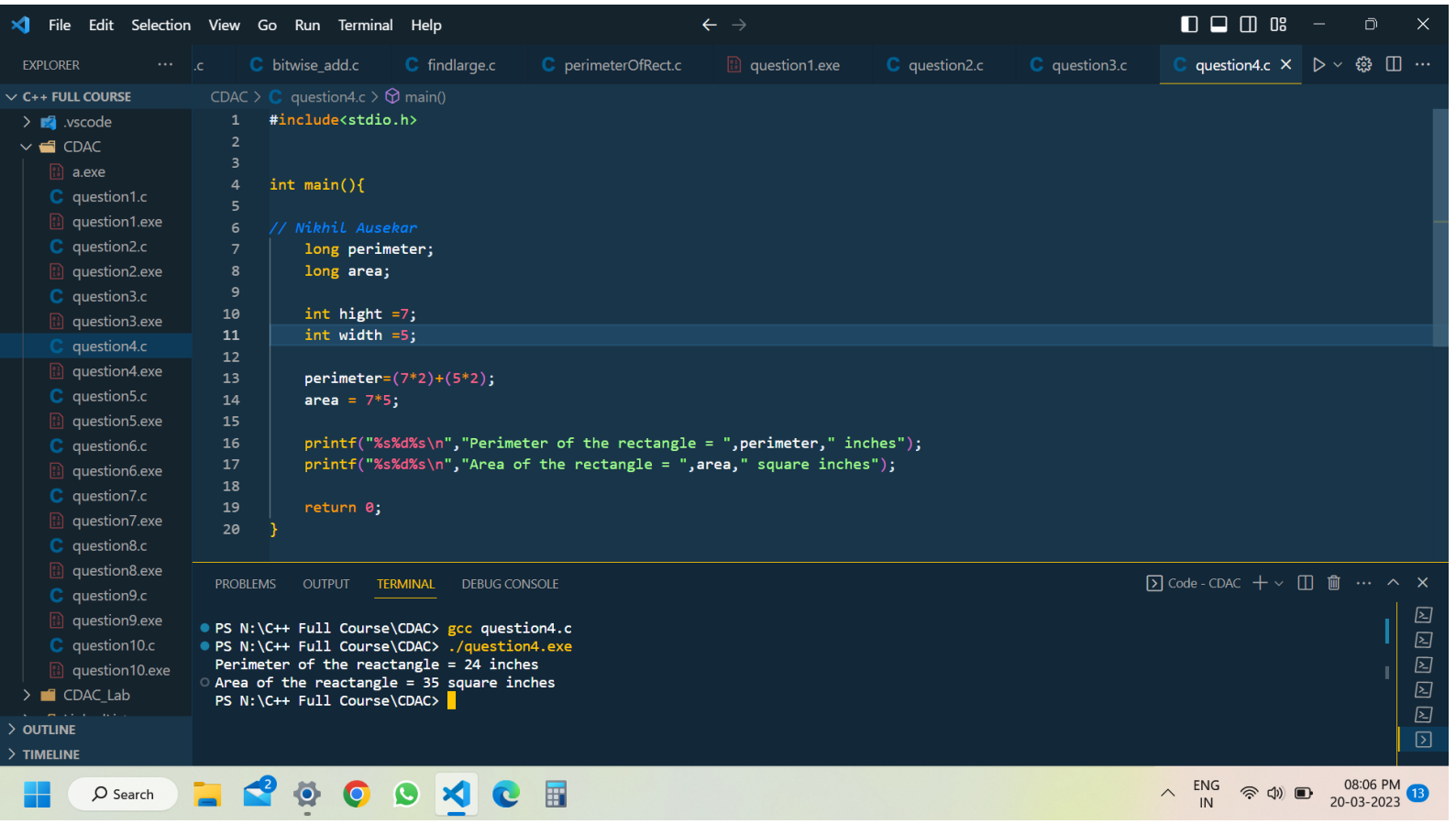
Q2.


File Edit Selection View Go Run Terminal Help
EXPLORER
lect5.cpp
question1.c
bitwise_add.c
findlarge.c
perimeterOfRect.c
question1.exe
question2.c
CDAC > question2.c > ...
#include<stdio.h>
int main(){
printf("%s\n","Name : Nikhil Shivshankar Ausekar");
printf("%s\n","DOB : Feb 27, 2000");
printf("Mobile : %s\n","91-9130558387");
return 0;
}
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
cd "n:\C++ Full Course\CDAC\" ; if ($?) { gcc question2.c -o question2 } ; if ($?) { .\question2 }
Name : Nikhil Shivshankar Ausekar
DOB : Feb 27, 2000
Mobile : 91-9130558387
PS N:\C++ Full Course\CDAC>
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
OUTLINE
TIMELINE
Search
ENG IN
08:02 PM 20-03-2023

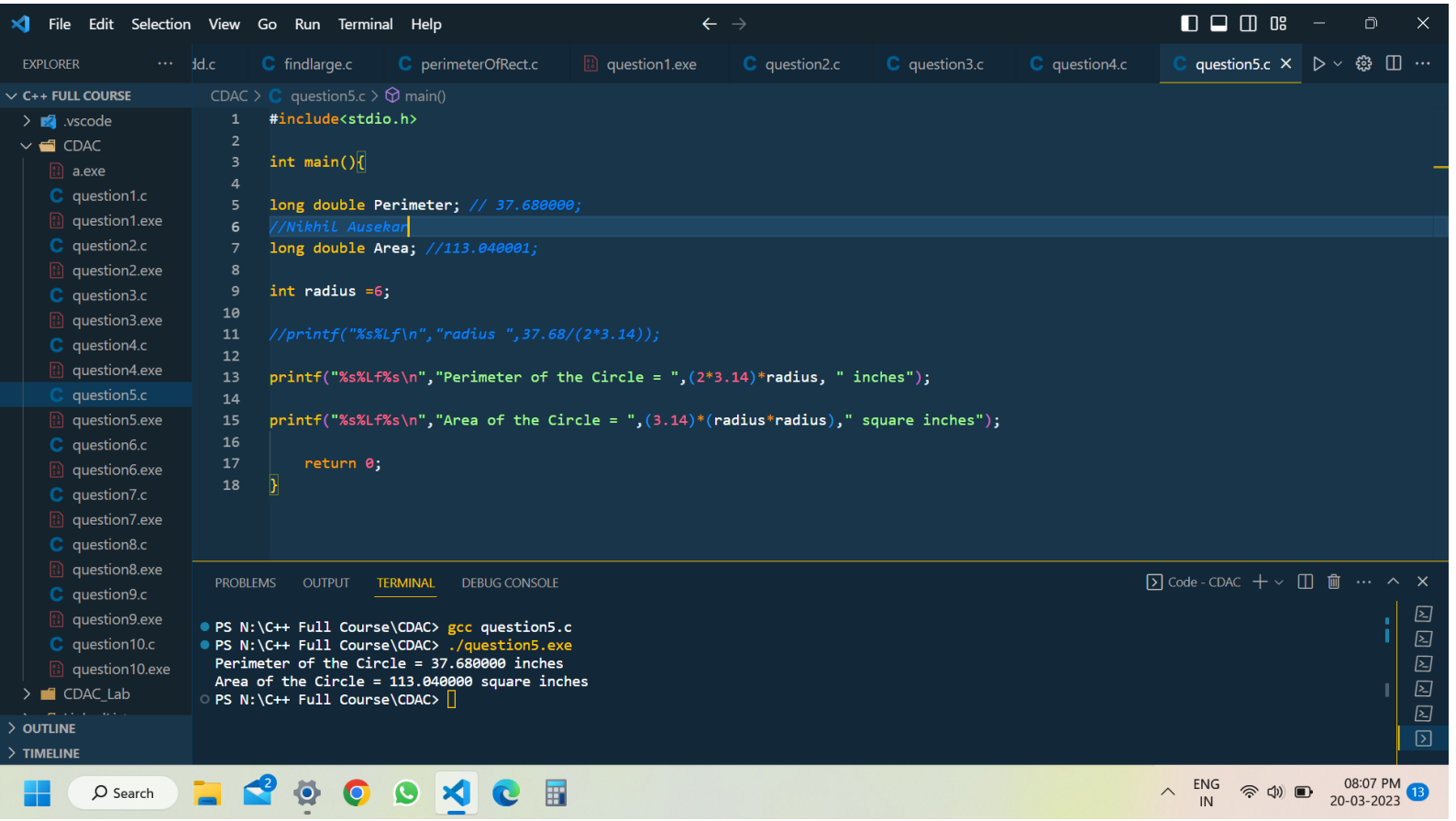
Q3.


File Edit Selection View Go Run Terminal Help
EXPLORER
question1.c
bitwise_add.c
findlarge.c
perimeterOfRect.c
question1.exe
question2.c
question3.c
C++ FULL COURSE
.vscode
CDAC
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
OUTLINE
TIMELINE
CDAC > question3.c > main()
#include<stdio.h>
int main(){
char M,X,L;
M ='M',X='X',L='L';
// XML reverse is LMX
//Nikhil Ausekar
// printf("The reverse of XML is %c%c%c\n",L,M,X);
printf("The reverse of XML is %c%c%c\n",'X'-12 ,'M','L'+12);
return 0;
}
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
PS N:\C++ Full Course\CDAC> gcc question3.c
PS N:\C++ Full Course\CDAC> ./question3.exe
The reverse of XML is LMX
PS N:\C++ Full Course\CDAC>
Search
ENG
IN
08:03 PM
20-03-2023

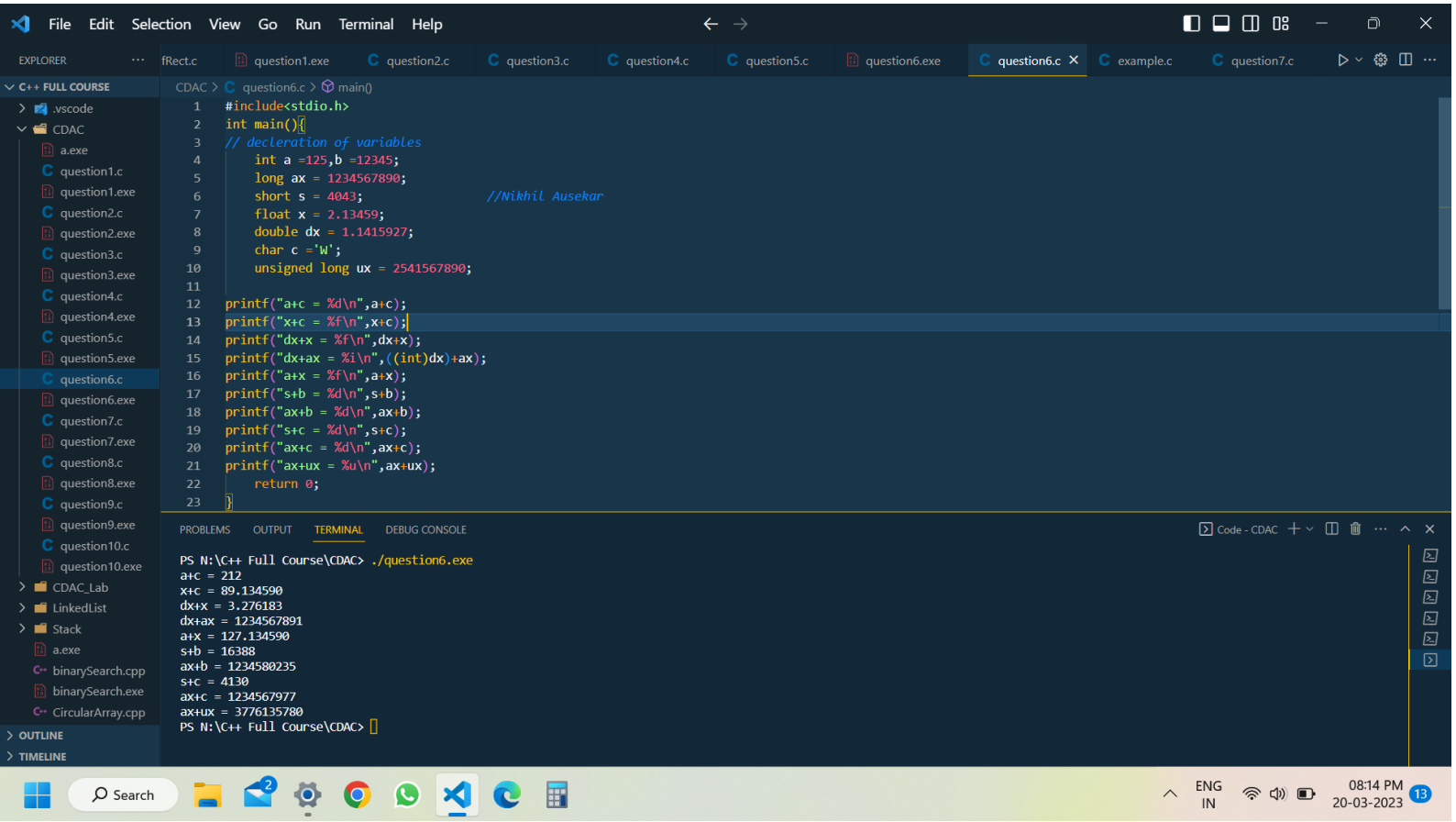
Q4.


File Edit Selection View Go Run Terminal Help
EXPLORER
bitwise_add.c
findlarge.c
perimeterOfRect.c
question1.exe
question2.c
question3.c
question4.c
C++ FULL COURSE
CDAC > question4.c > main()
#include<stdio.h>
int main(){
// Nikhil Ausekar
long perimeter;
long area;
int hight =7;
int width =5;
perimeter=(7*2)+(5*2);
area = 7*5;
printf("%s%d%s\n","Perimeter of the rectangle = ",perimeter," inches");
printf("%s%d%s\n","Area of the rectangle = ",area," square inches");
return 0;
}
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
PS N:\C++ Full Course\CDAC> gcc question4.c
PS N:\C++ Full Course\CDAC> ./question4.exe
Perimeter of the reactangle = 24 inches
Area of the reactangle = 35 square inches
PS N:\C++ Full Course\CDAC>
OUTLINE
TIMELINE
Search
ENG IN
08:06 PM 20-03-2023

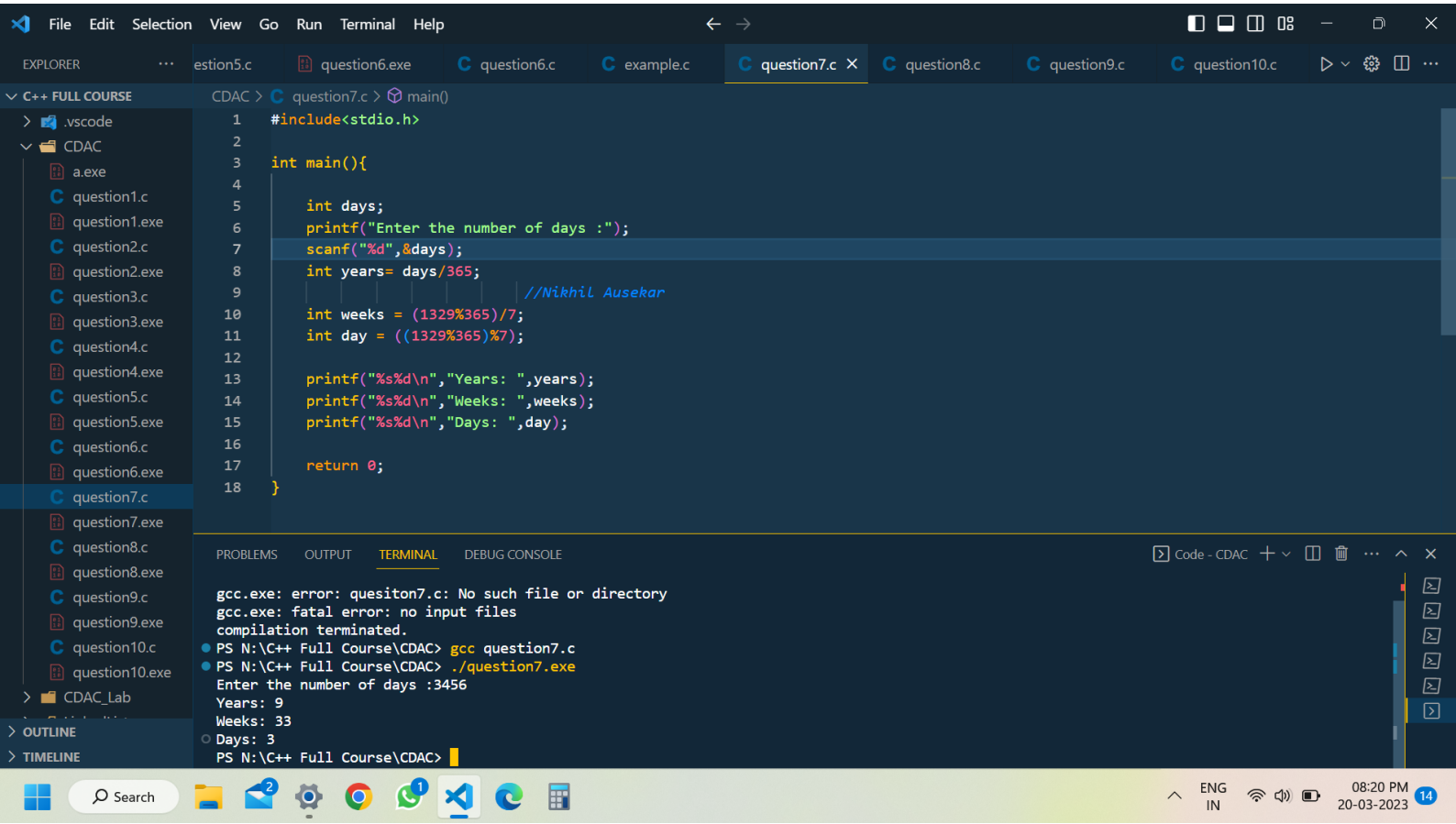
Q5.


File Edit Selection View Go Run Terminal Help
EXPLORER
findlarge.c
perimeterOfRect.c
question1.exe
question2.c
question3.c
question4.c
question5.c
C++ FULL COURSE
.vscode
CDAC
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
CDAC > question5.c > main()
1 #include<stdio.h>
2
3 int main(){
4
5 long double Perimeter; // 37.680000;
6 //Nikhil Ausekar
7 long double Area; //113.040001;
8
9 int radius =6;
10
11 //printf("%s%Lf\n","radius ",37.68/(2*3.14));
12
13 printf("%s%Lf%s\n","Perimeter of the Circle = ",(2*3.14)*radius, " inches");
14
15 printf("%s%Lf%s\n","Area of the Circle = ",(3.14)*(radius*radius)," square inches");
16
17 return 0;
18 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
PS N:\C++ Full Course\CDAC> gcc question5.c
PS N:\C++ Full Course\CDAC> ./question5.exe
Perimeter of the Circle = 37.680000 inches
Area of the Circle = 113.040000 square inches
PS N:\C++ Full Course\CDAC>
OUTLINE
TIMELINE
Search
ENG IN
08:07 PM 20-03-2023

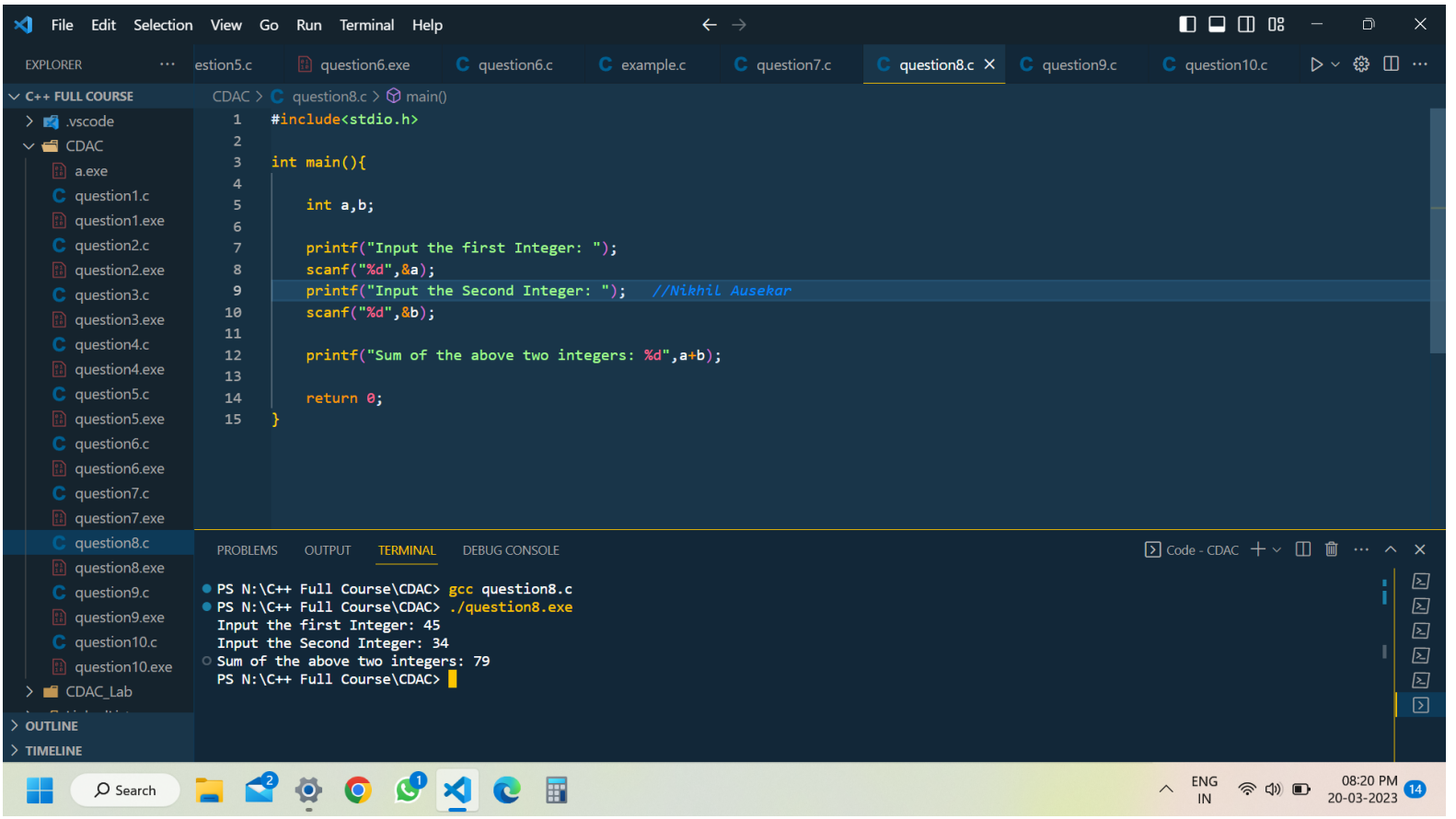
Q6.


File Edit Selection View Go Run Terminal Help
EXPLORER
fRect.c question1.exe question2.c question3.c question4.c question5.c question6.exe question6.c example.c question7.c
C++ FULL COURSE
CDAC > question6.c > main()
.vscode
CDAC
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
LinkedList
Stack
a.exe
binarySearch.cpp
binarySearch.exe
CircularArray.cpp
OUTLINE
TIMELINE
1 #include<stdio.h>
2 int main(){
3 // decleration of variables
4 int a =125,b =12345;
5 long ax = 1234567890;
6 short s = 4043; //Nikhil Ausekar
7 float x = 2.13459;
8 double dx = 1.1415927;
9 char c ='W';
10 unsigned long ux = 2541567890;
11
12 printf("a+c = %d\n",a+c);
13 printf("x+c = %f\n",x+c);
14 printf("dx+x = %f\n",dx+x);
15 printf("dx+ax = %i\n",((int)dx)+ax);
16 printf("a+x = %f\n",a+x);
17 printf("s+b = %d\n",s+b);
18 printf("ax+b = %d\n",ax+b);
19 printf("s+c = %d\n",s+c);
20 printf("ax+c = %d\n",ax+c);
21 printf("ax+ux = %u\n",ax+ux);
22 return 0;
23 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
PS N:\C++ Full Course\CDAC> ./question6.exe
a+c = 212
x+c = 89.134590
dx+x = 3.276183
dx+ax = 1234567891
a+x = 127.134590
s+b = 16388
ax+b = 1234580235
s+c = 4130
ax+c = 1234567977
ax+ux = 3776135780
PS N:\C++ Full Course\CDAC>
Search
ENG
IN
08:14 PM
20-03-2023

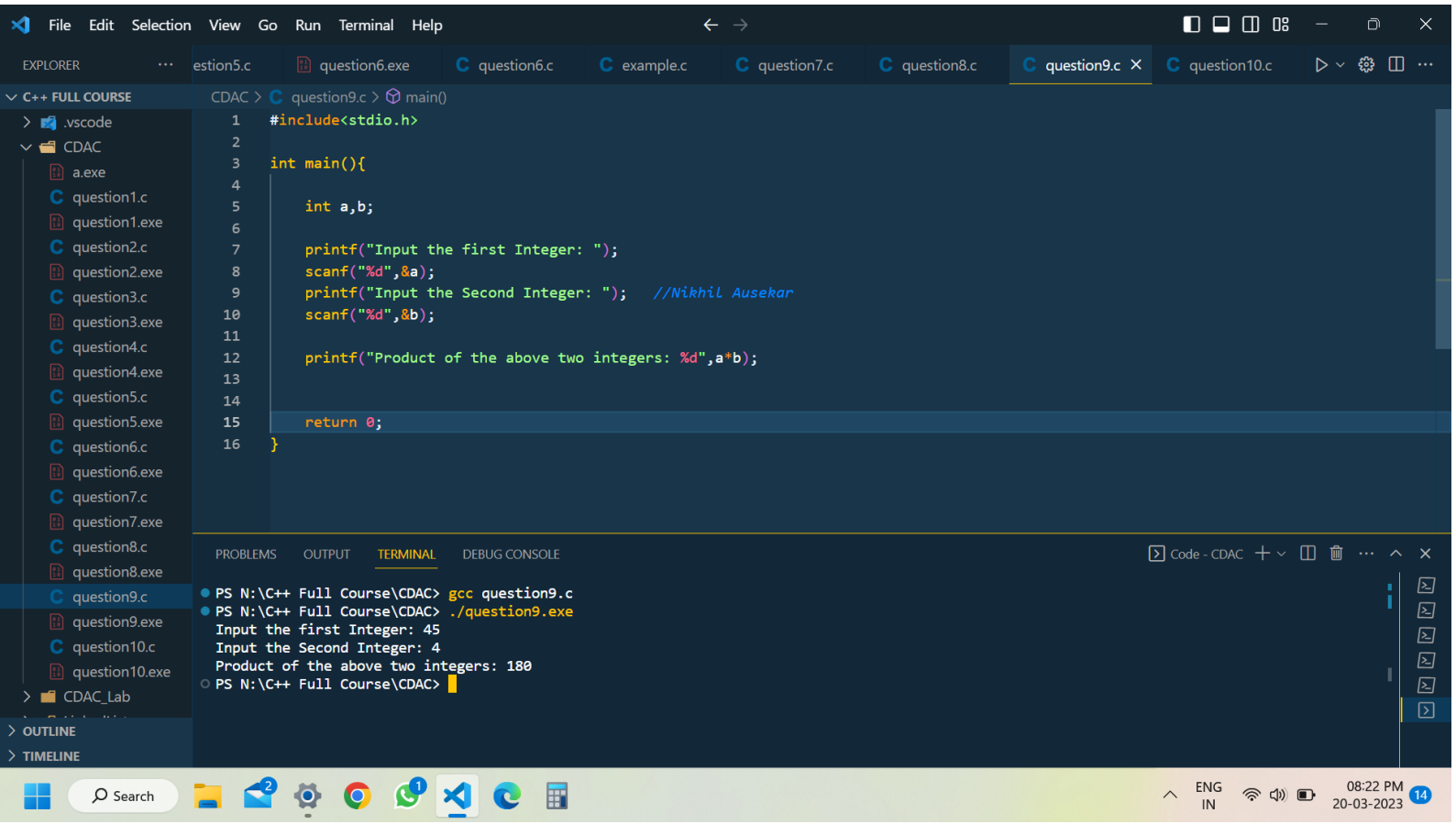
Q7.


File Edit Selection View Go Run Terminal Help
EXPLORER
question6.exe
question6.c
example.c
question7.c
question8.c
question9.c
question10.c
C++ FULL COURSE
.vscode
CDAC
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
OUTLINE
TIMELINE
CDAC > question7.c > main()
#include<stdio.h>
int main(){
int days;
printf("Enter the number of days :");
scanf("%d",&days);
int years= days/365;
//Nikhil Ausekar
int weeks = (1329%365)/7;
int day = ((1329%365)%7);
printf("%s%d\n","Years: ",years);
printf("%s%d\n","Weeks: ",weeks);
printf("%s%d\n","Days: ",day);
return 0;
}
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
gcc.exe: error: quesiton7.c: No such file or directory
gcc.exe: fatal error: no input files
compilation terminated.
PS N:\C++ Full Course\CDAC> gcc question7.c
PS N:\C++ Full Course\CDAC> ./question7.exe
Enter the number of days :3456
Years: 9
Weeks: 33
Days: 3
PS N:\C++ Full Course\CDAC>
Search
ENG
IN
08:20 PM
20-03-2023

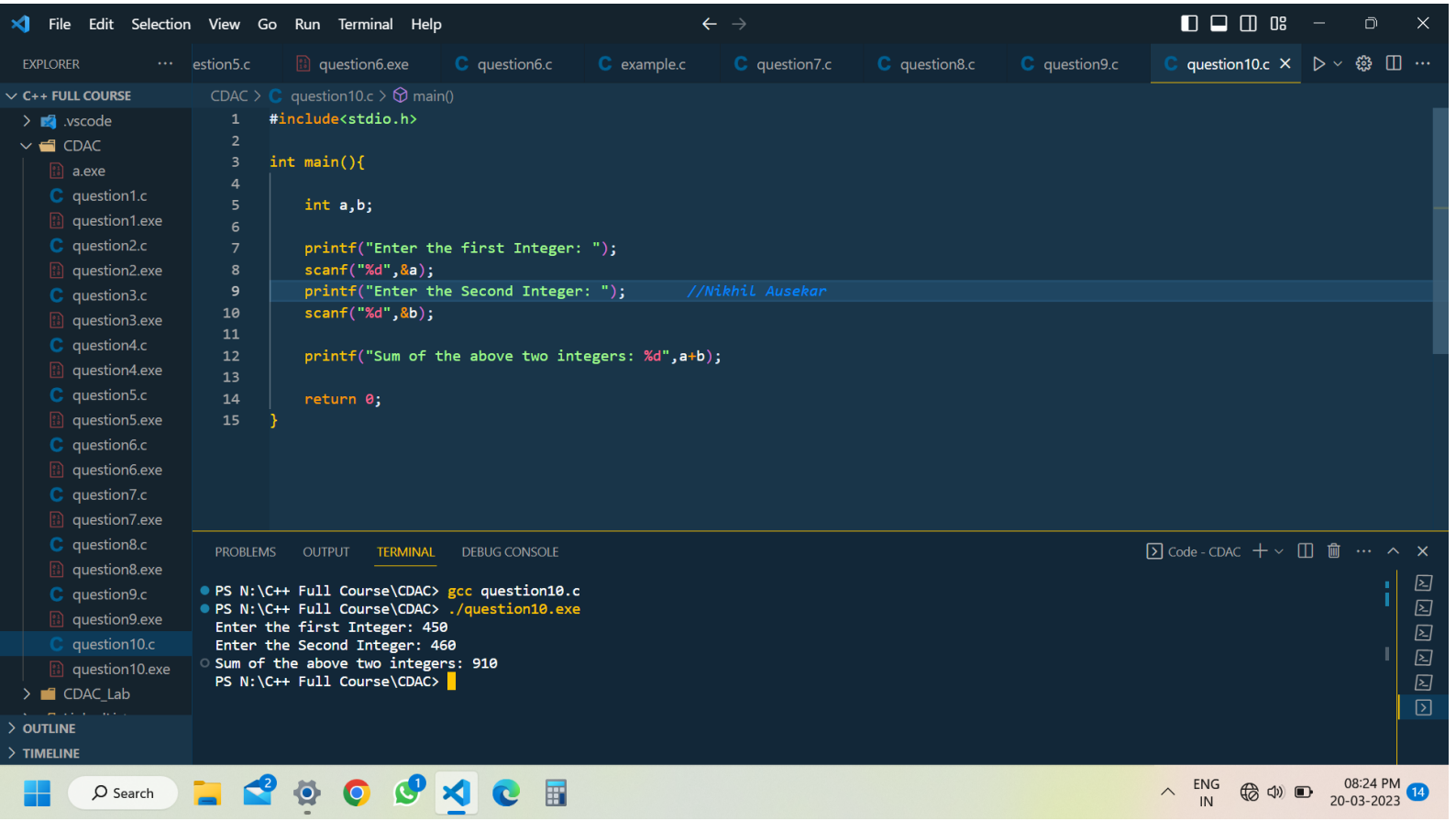
Q8.


File Edit Selection View Go Run Terminal Help
EXPLORER
question6.exe
question6.c
example.c
question7.c
question8.c
question9.c
question10.c
C++ FULL COURSE
CDAC > question8.c > main()
.vscode
CDAC
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
OUTLINE
TIMELINE
1 #include<stdio.h>
2
3 int main(){
4
5 int a,b;
6
7 printf("Input the first Integer: ");
8 scanf("%d",&a);
9 printf("Input the Second Integer: "); //Nikhil Ausekar
10 scanf("%d",&b);
11
12 printf("Sum of the above two integers: %d",a+b);
13
14 return 0;
15 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
PS N:\C++ Full Course\CDAC> gcc question8.c
PS N:\C++ Full Course\CDAC> ./question8.exe
Input the first Integer: 45
Input the Second Integer: 34
Sum of the above two integers: 79
PS N:\C++ Full Course\CDAC>
Search
ENG
IN
08:20 PM
20-03-2023

Q9.


File Edit Selection View Go Run Terminal Help
EXPLORER
question5.c
question6.exe
question6.c
example.c
question7.c
question8.c
question9.c
question10.c
C++ FULL COURSE
.vscode
CDAC
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
OUTLINE
TIMELINE
CDAC > question9.c > main()
1 #include<stdio.h>
2
3 int main(){
4
5 int a,b;
6
7 printf("Input the first Integer: ");
8 scanf("%d",&a);
9 printf("Input the Second Integer: "); //Nikhil Ausekar
10 scanf("%d",&b);
11
12 printf("Product of the above two integers: %d",a*b);
13
14
15 return 0;
16 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
PS N:\C++ Full Course\CDAC> gcc question9.c
PS N:\C++ Full Course\CDAC> ./question9.exe
Input the first Integer: 45
Input the Second Integer: 4
Product of the above two integers: 180
PS N:\C++ Full Course\CDAC>
Search
ENG
IN
08:22 PM
20-03-2023

Q10.


File Edit Selection View Go Run Terminal Help
EXPLORER
question6.exe
question6.c
example.c
question7.c
question8.c
question9.c
question10.c
C++ FULL COURSE
.vscode
CDAC
a.exe
question1.c
question1.exe
question2.c
question2.exe
question3.c
question3.exe
question4.c
question4.exe
question5.c
question5.exe
question6.c
question6.exe
question7.c
question7.exe
question8.c
question8.exe
question9.c
question9.exe
question10.c
question10.exe
CDAC_Lab
OUTLINE
TIMELINE
CDAC > question10.c > main()
#include<stdio.h>
int main(){
int a,b;
printf("Enter the first Integer: ");
scanf("%d",&a);
printf("Enter the Second Integer: "); //Nikhil Ausekar
scanf("%d",&b);
printf("Sum of the above two integers: %d",a+b);
return 0;
}
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Code - CDAC
PS N:\C++ Full Course\CDAC> gcc question10.c
PS N:\C++ Full Course\CDAC> ./question10.exe
Enter the first Integer: 450
Enter the Second Integer: 460
Sum of the above two integers: 910
PS N:\C++ Full Course\CDAC>
Search
ENG
IN
08:24 PM
20-03-2023