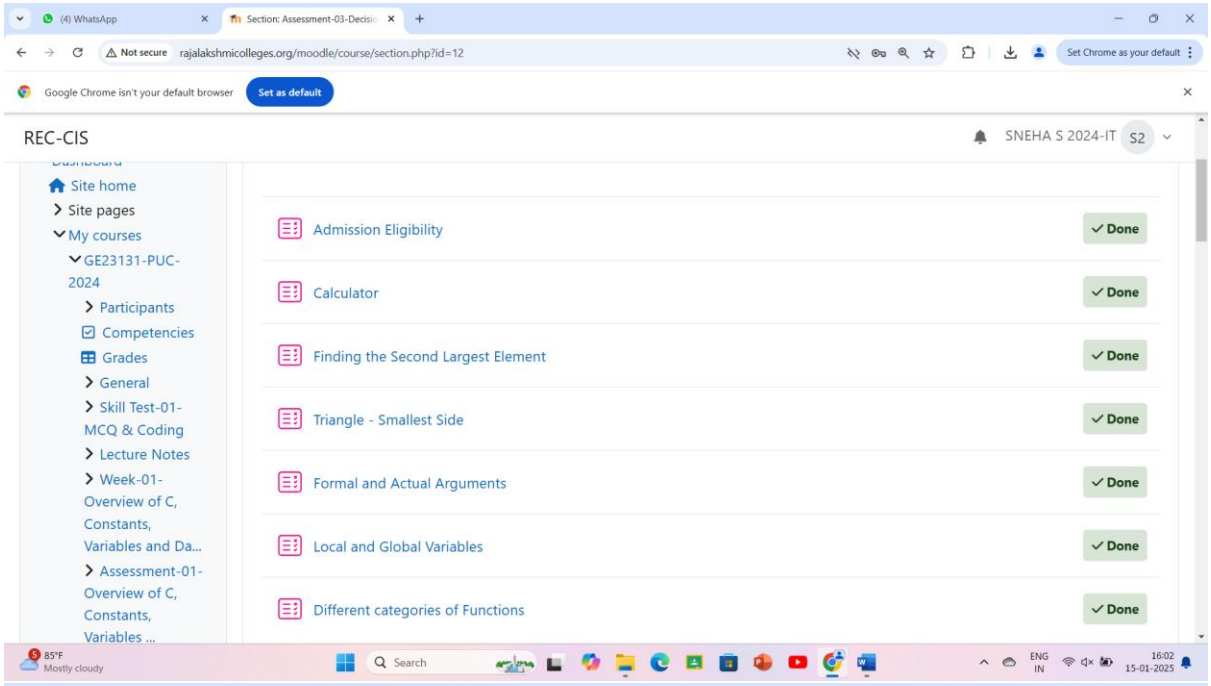
Week 3: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Participants
Competencies
Grades
General
Skill Test-01-MCQ & Coding
Lecture Notes
Week-01-Overview of C, Constants, Variables and Da...
Assessment-01-Overview of C, Constants, Variables ...
Admission Eligibility
Done
Calculator
Done
Finding the Second Largest Element
Done
Triangle - Smallest Side
Done
Formal and Actual Arguments
Done
Local and Global Variables
Done
Different categories of Functions
Done
85°F
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Search
ENG
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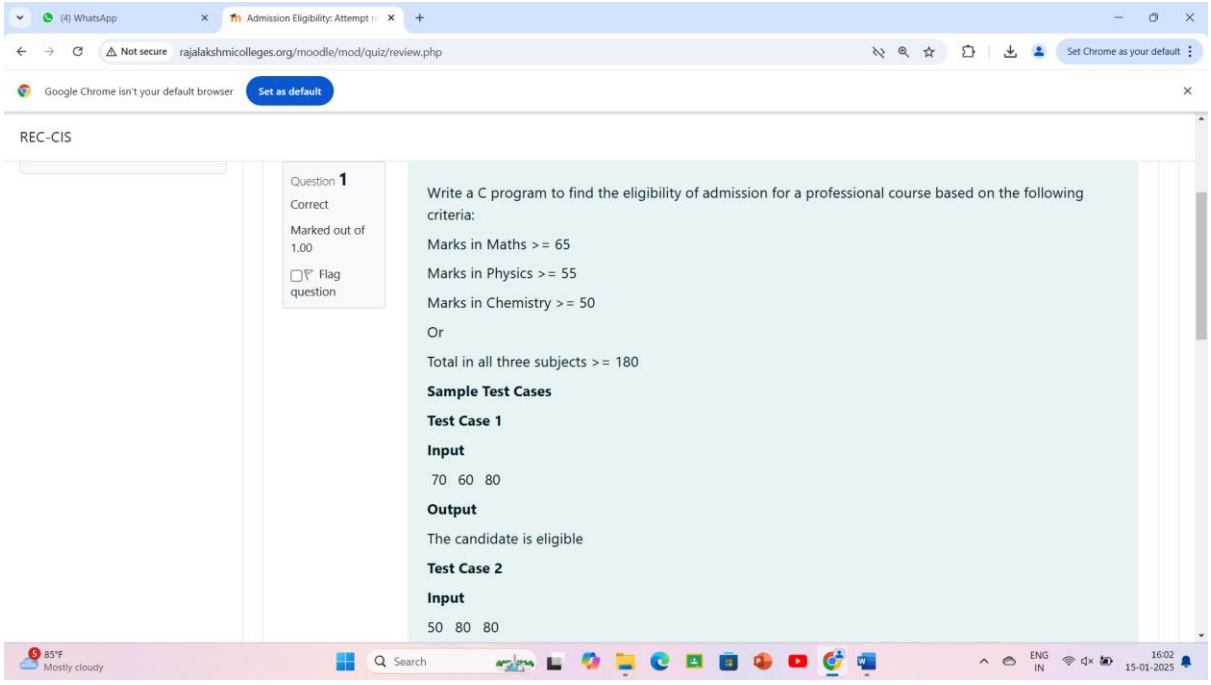
15-01-2025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REC-CIS
Question 1
Correct
Marked out of 1.00
Flag question
Write a C program to find the eligibility of admission for a professional course based on the following criteria:
Marks in Maths >= 65
Marks in Physics >= 55
Marks in Chemistry >= 50
Or
Total in all three subjects >= 180
Sample Test Cases
Test Case 1
Input
70 60 80
Output
The candidate is eligible
Test Case 2
Input
50 80 80
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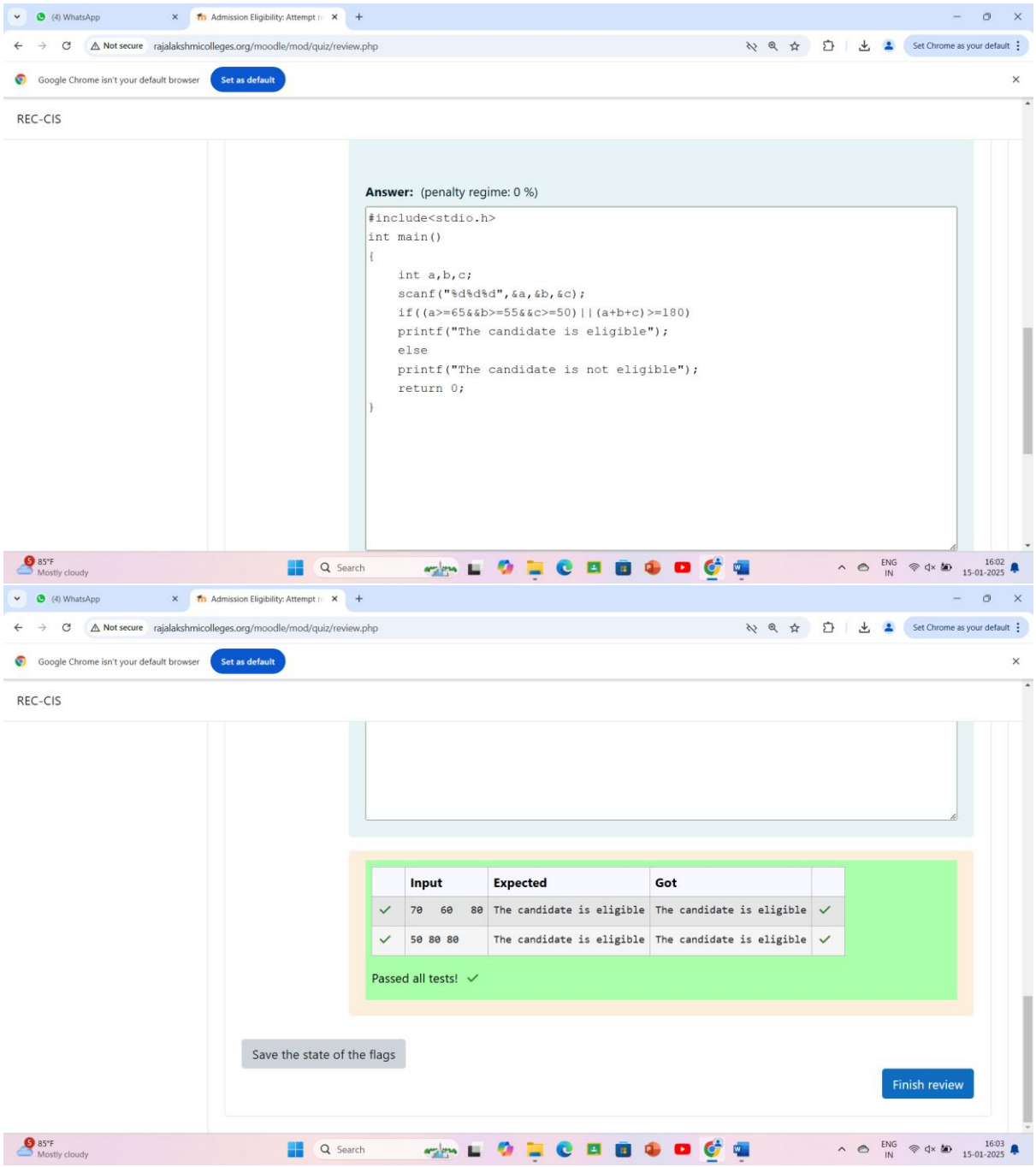
15-01-2025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REC-CIS
Answer: (penalty regime: 0 %)
#include<stdio.h>
int main()
{
int a,b,c;
scanf("%d%d%d",&a,&b,&c);
if((a>=65&&b>=55&&c>=50)||(a+b+c)>=180)
printf("The candidate is eligible");
else
printf("The candidate is not eligible");
return 0;
}
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15-01-2025

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Admission Eligibility: Attempt
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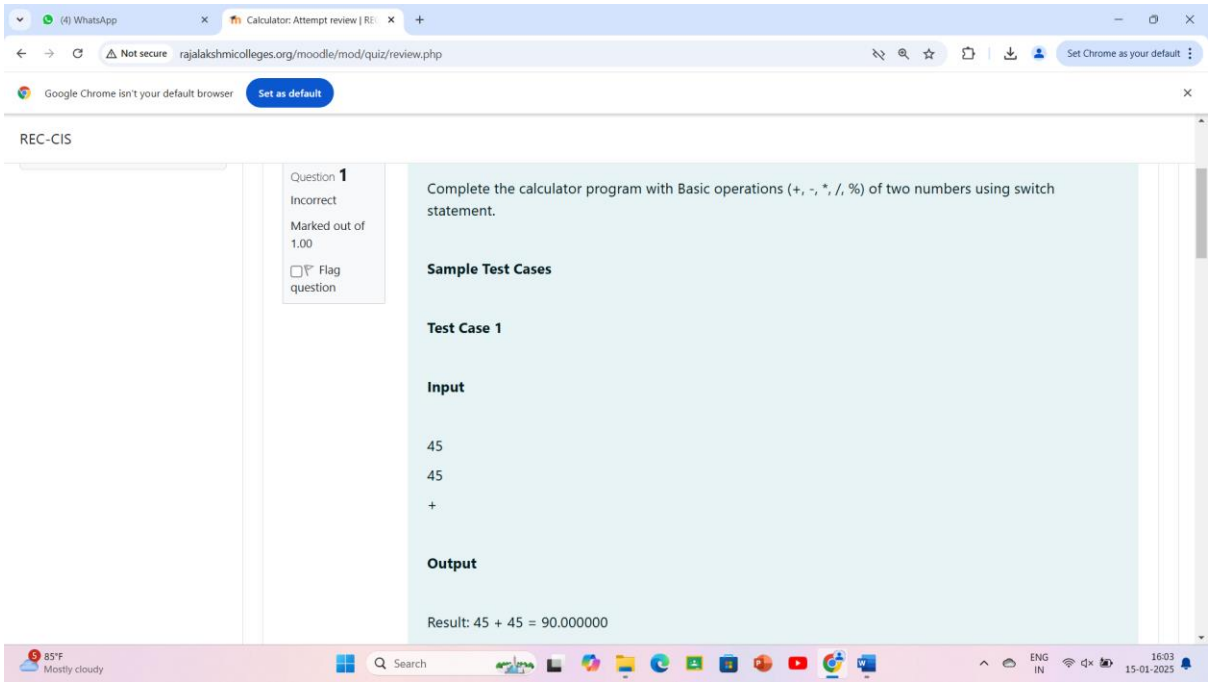
REC-CIS
Input
Expected
Got
70 60 80
The candidate is eligible
The candidate is eligible
50 80 80
The candidate is eligible
The candidate is eligible
Passed all tests!
Save the state of the flags
Finish review
85°F
Mostly cloudy
Search
ENG
IN
16:03
15-01-2025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Calculator: Attempt review | RE
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REC-CIS
Question 1
Incorrect
Marked out of 1.00
Flag question
Complete the calculator program with Basic operations (+, -, *, /, %) of two numbers using switch statement.
Sample Test Cases
Test Case 1
Input
45
45
+
Output
Result: 45 + 45 = 90.000000
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Search
ENG
IN
16:03
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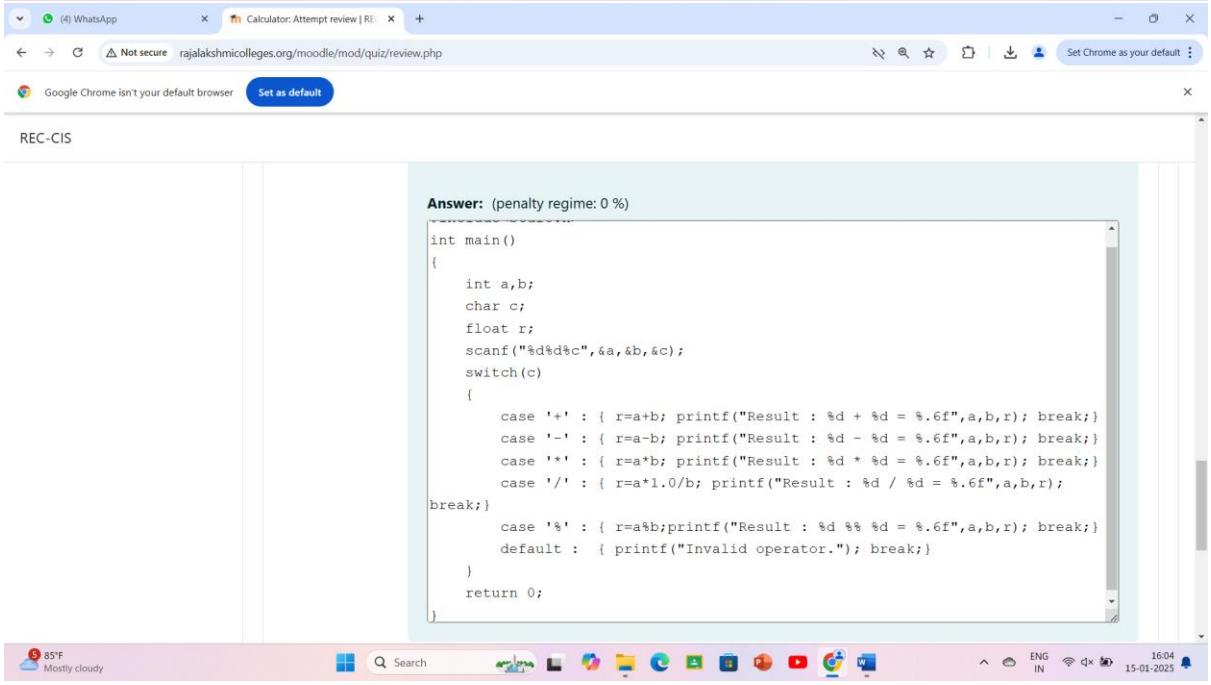
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Calculator: Attempt review | RE
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REC-CIS
Answer: (penalty regime: 0 %)
int main()
{
int a,b;
char c;
float r;
scanf("%d%d%c",&a,&b,&c);
switch(c)
{
case '+' : { r=a+b; printf("Result : %d + %d = %.6f",a,b,r); break;}
case '-' : { r=a-b; printf("Result : %d - %d = %.6f",a,b,r); break;}
case '*' : { r=a*b; printf("Result : %d * %d = %.6f",a,b,r); break;}
case '/' : { r=a*1.0/b; printf("Result : %d / %d = %.6f",a,b,r);
break;}
case '%' : { r=a%b;printf("Result : %d %% %d = %.6f",a,b,r); break;}
default : { printf("Invalid operator."); break;}
}
return 0;
}
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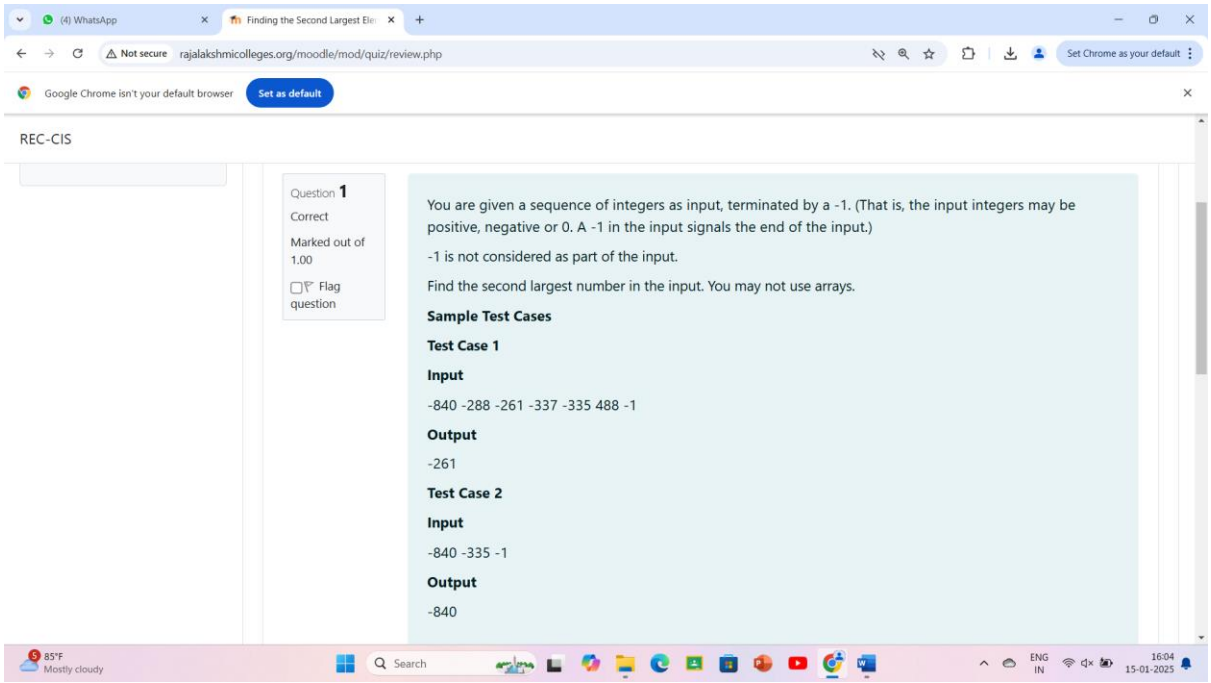
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Finding the Second Largest Ele
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Question 1
Correct
Marked out of 1.00
Flag question
You are given a sequence of integers as input, terminated by a -1. (That is, the input integers may be positive, negative or 0. A -1 in the input signals the end of the input.)
-1 is not considered as part of the input.
Find the second largest number in the input. You may not use arrays.
Sample Test Cases
Test Case 1
Input
-840 -288 -261 -337 -335 488 -1
Output
-261
Test Case 2
Input
-840 -335 -1
Output
-840
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Search
ENG
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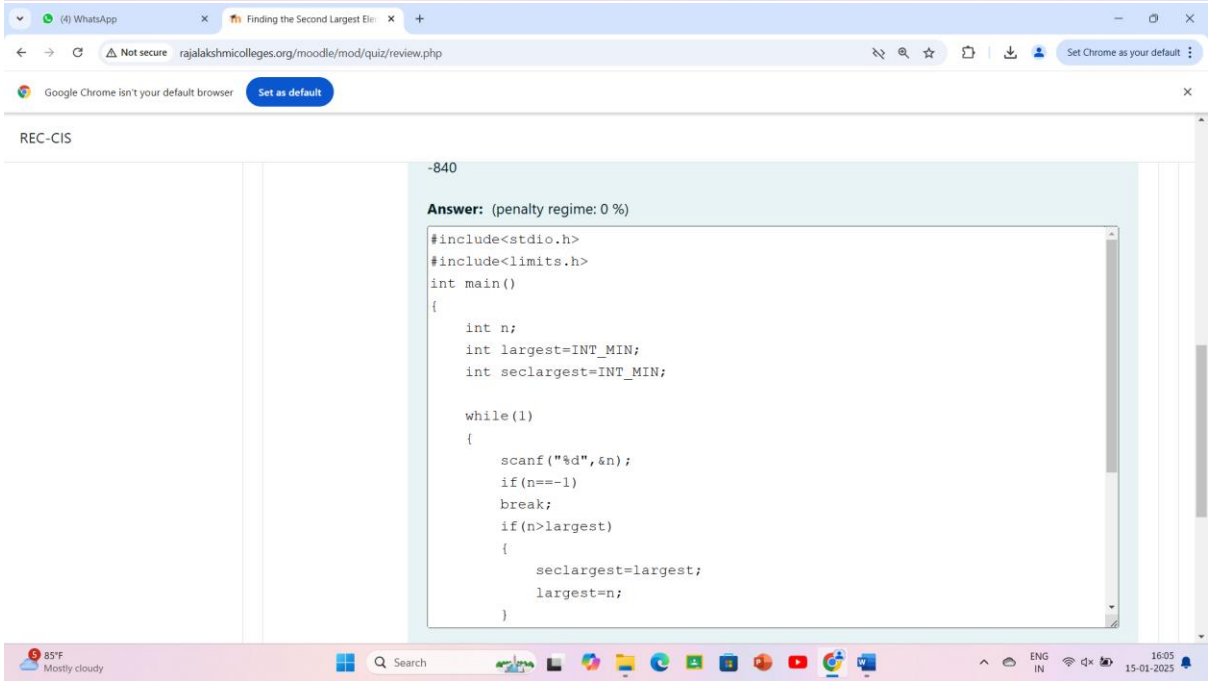
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-840
Answer: (penalty regime: 0 %)
#include<stdio.h>
#include<limits.h>
int main()
{
int n;
int largest=INT_MIN;
int seclargest=INT_MIN;
while(1)
{
scanf("%d",&n);
if(n==-1)
break;
if(n>largest)
{
seclargest=largest;
largest=n;
}
85°F
Mostly cloudy
Search
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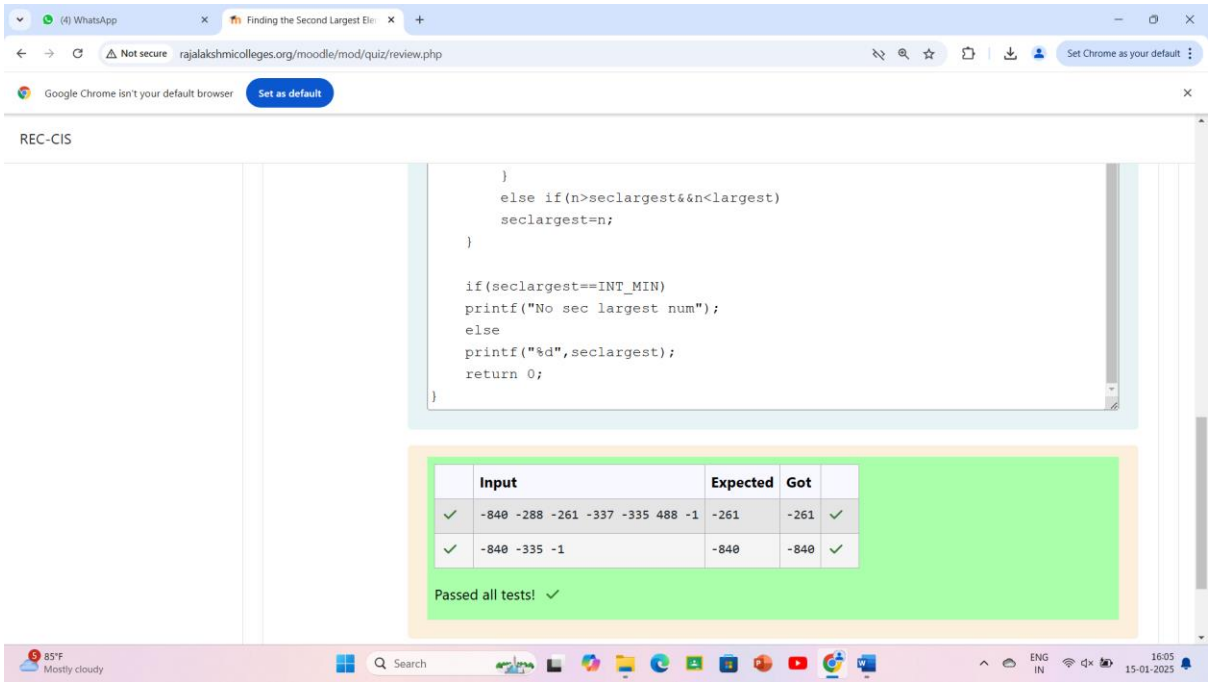
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Finding the Second Largest Ele
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}
else if(n>seclargest&&n<largest)
seclargest=n;
}
if(seclargest==INT_MIN)
printf("No sec largest num");
else
printf("%d",seclargest);
return 0;
}
Input
Expected
Got
-840 -288 -261 -337 -335 488 -1
-261
-261
-840 -335 -1
-840
-840
Passed all tests!
85°F
Mostly cloudy
Search
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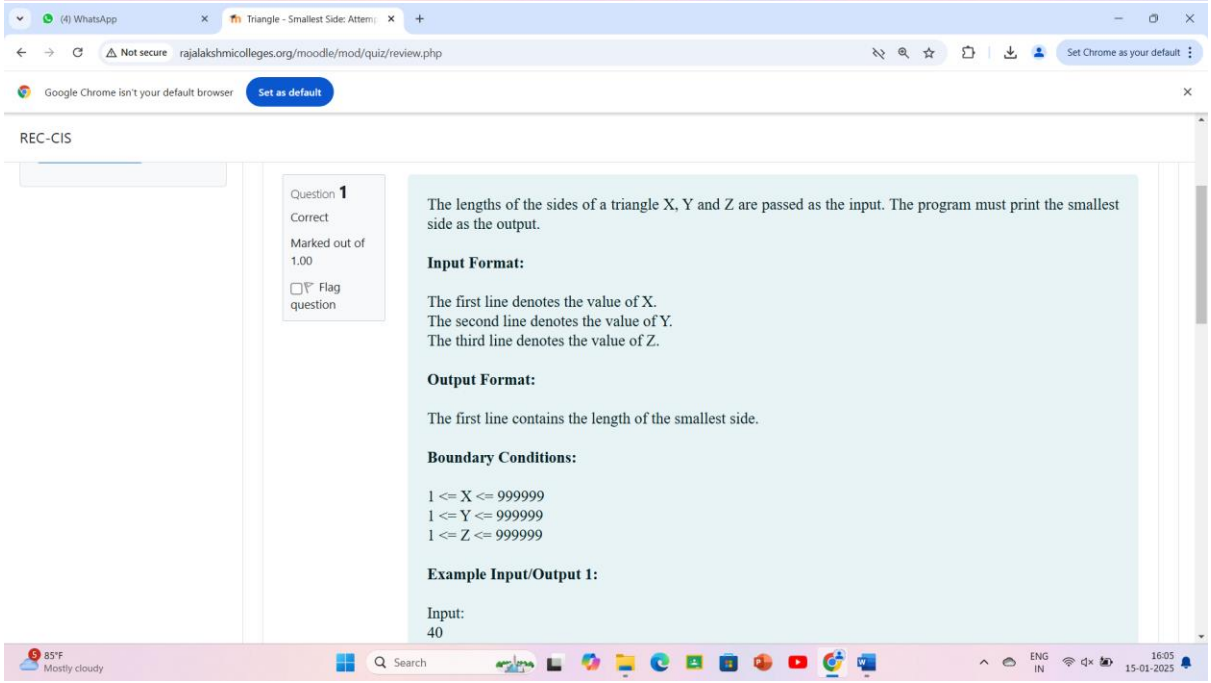
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Triangle - Smallest Side: Attem
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REC-CIS
Question 1
Correct
Marked out of 1.00
Flag question
The lengths of the sides of a triangle X, Y and Z are passed as the input. The program must print the smallest side as the output.
Input Format:
The first line denotes the value of X.
The second line denotes the value of Y.
The third line denotes the value of Z.
Output Format:
The first line contains the length of the smallest side.
Boundary Conditions:
1 <= X <= 999999
1 <= Y <= 999999
1 <= Z <= 999999
Example Input/Output 1:
Input:
40
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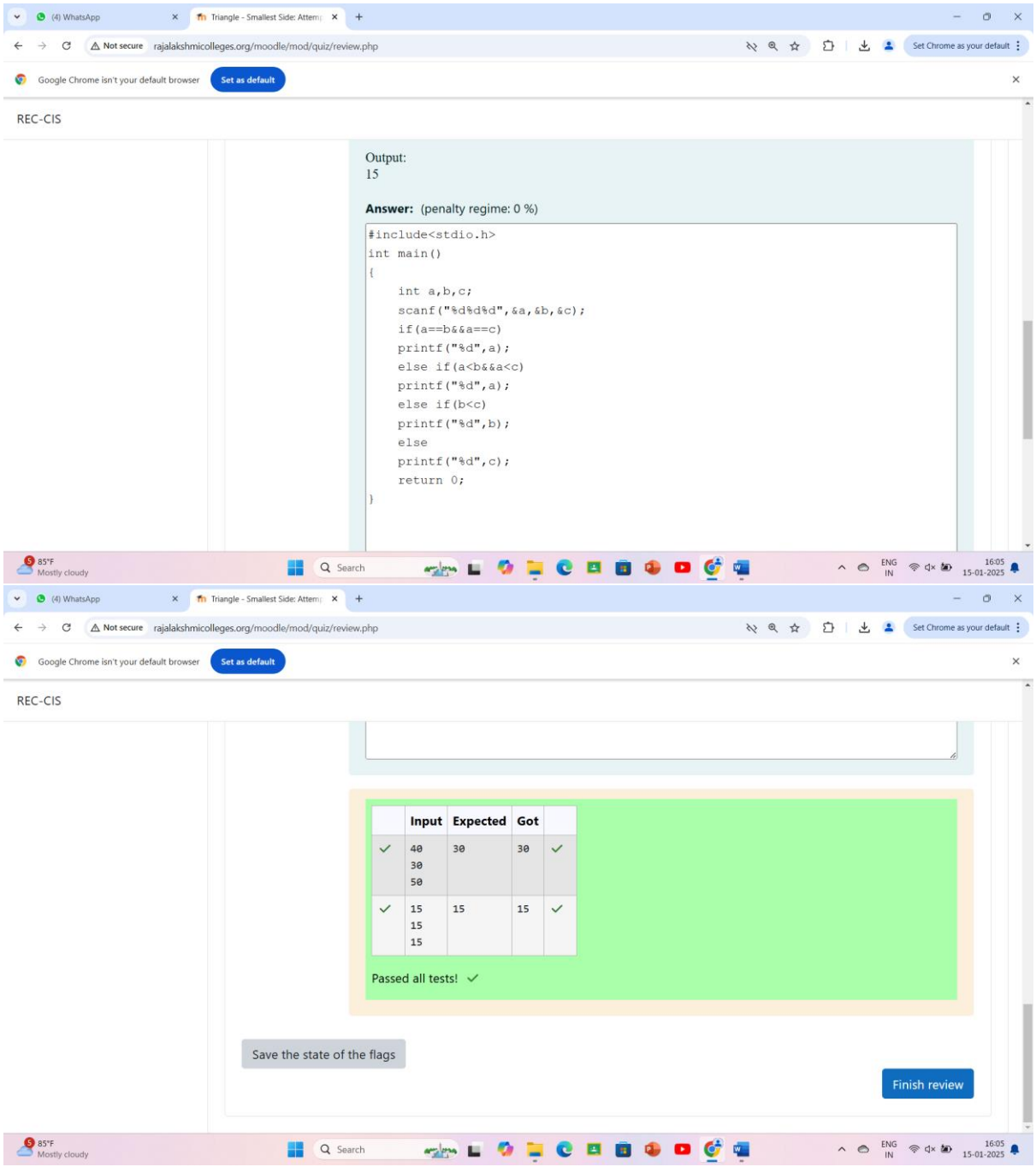
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Triangle - Smallest Side: Attem
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REC-CIS
Output:
15
Answer: (penalty regime: 0 %)
#include<stdio.h>
int main()
{
int a,b,c;
scanf("%d%d%d",&a,&b,&c);
if(a==b&&a==c)
printf("%d",a);
else if(a<b&&a<c)
printf("%d",a);
else if(b<c)
printf("%d",b);
else
printf("%d",c);
return 0;
}
85°F
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Triangle - Smallest Side: Attem
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REC-CIS
Input
Expected
Got
40
30
50
30
30
15
15
15
15
15
Passed all tests!
Save the state of the flags
Finish review
85°F
Mostly cloudy
Search
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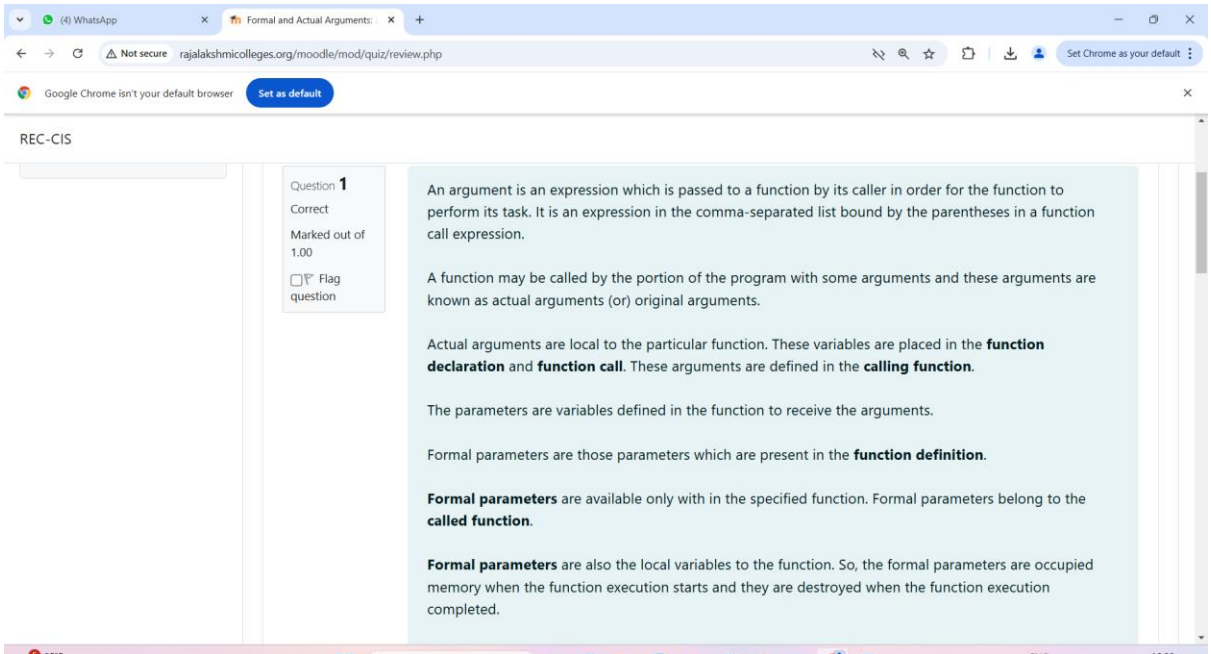
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Formal and Actual Arguments:
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REC-CIS
Question 1
Correct
Marked out of 1.00
Flag question
An argument is an expression which is passed to a function by its caller in order for the function to perform its task. It is an expression in the comma-separated list bound by the parentheses in a function call expression.
A function may be called by the portion of the program with some arguments and these arguments are known as actual arguments (or) original arguments.
Actual arguments are local to the particular function. These variables are placed in the function declaration and function call. These arguments are defined in the calling function.
The parameters are variables defined in the function to receive the arguments.
Formal parameters are those parameters which are present in the function definition.
Formal parameters are available only with in the specified function. Formal parameters belong to the called function.
Formal parameters are also the local variables to the function. So, the formal parameters are occupied memory when the function execution starts and they are destroyed when the function execution completed.
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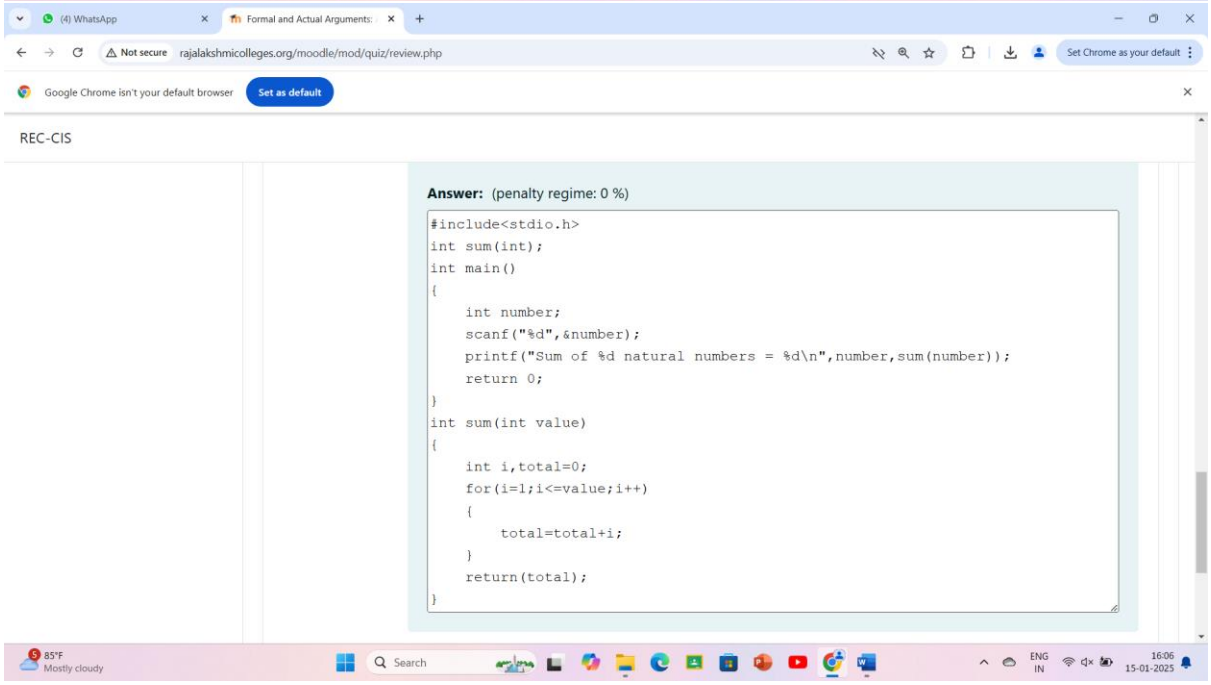
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Formal and Actual Arguments:
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REC-CIS
Answer: (penalty regime: 0 %)
#include<stdio.h>
int sum(int);
int main()
{
int number;
scanf("%d",&number);
printf("Sum of %d natural numbers = %d\n",number,sum(number));
return 0;
}
int sum(int value)
{
int i,total=0;
for(i=1;i<=value;i++)
{
total=total+i;
}
return(total);
}
85°F
Mostly cloudy
Search
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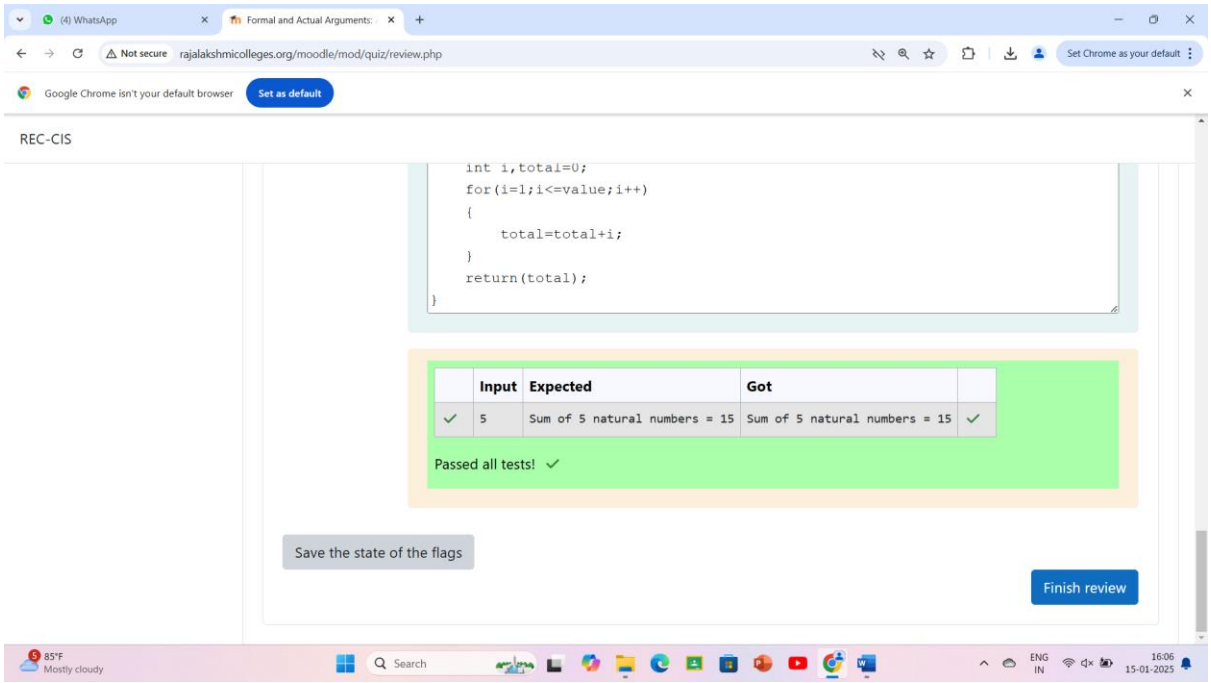
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Formal and Actual Arguments:
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REC-CIS
int i,total=0;
for(i=1;i<=value;i++)
{
total=total+i;
}
return(total);
}
Input
Expected
Got
5
Sum of 5 natural numbers = 15
Sum of 5 natural numbers = 15
Passed all tests!
Save the state of the flags
Finish review
85°F
Mostly cloudy
Search
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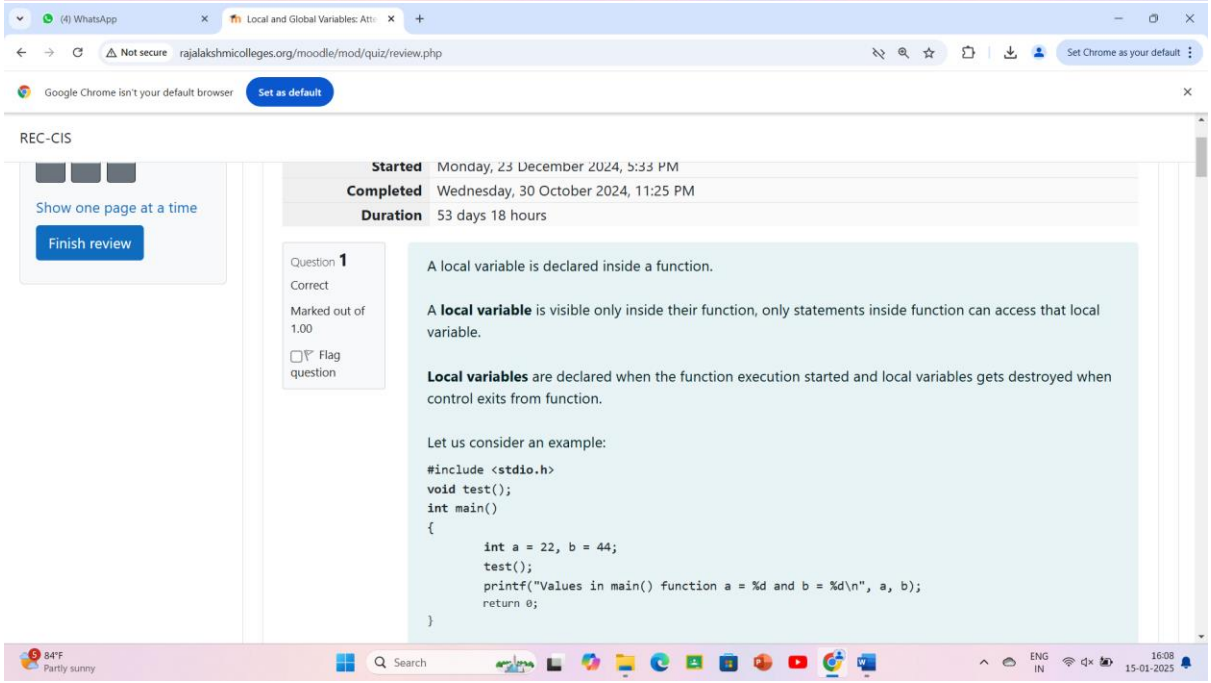
15-01-2025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Local and Global Variables: Att
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REC-CIS
Show one page at a time
Finish review
Started
Monday, 23 December 2024, 5:33 PM
Completed
Wednesday, 30 October 2024, 11:25 PM
Duration
53 days 18 hours
Question 1
Correct
Marked out of 1.00
Flag question
A local variable is declared inside a function.
A local variable is visible only inside their function, only statements inside function can access that local variable.
Local variables are declared when the function execution started and local variables gets destroyed when control exits from function.
Let us consider an example:
#include <stdio.h>
void test();
int main()
{
int a = 22, b = 44;
test();
printf("Values in main() function a = %d and b = %d\n", a, b);
return 0;
}
84°F
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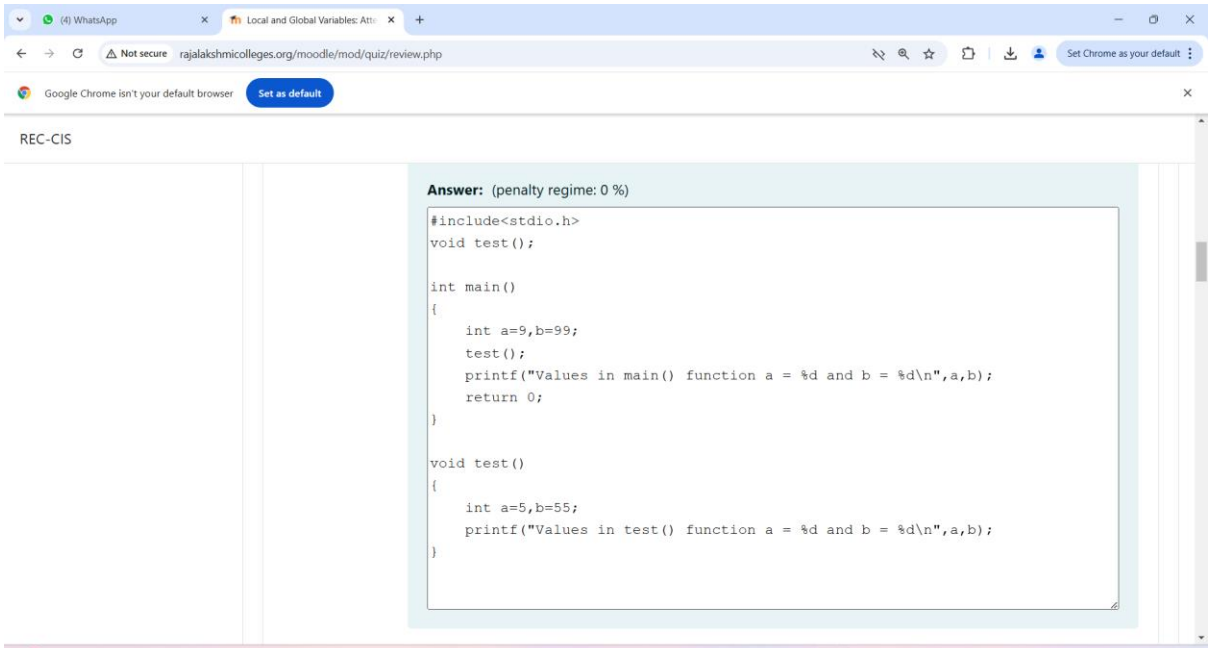
15-01-2025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Local and Global Variables: Atte
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Set as default
REC-CIS
Answer: (penalty regime: 0 %)
#include<stdio.h>
void test();
int main()
{
int a=9,b=99;
test();
printf("Values in main() function a = %d and b = %d\n",a,b);
return 0;
}
void test()
{
int a=5,b=55;
printf("Values in test() function a = %d and b = %d\n",a,b);
}
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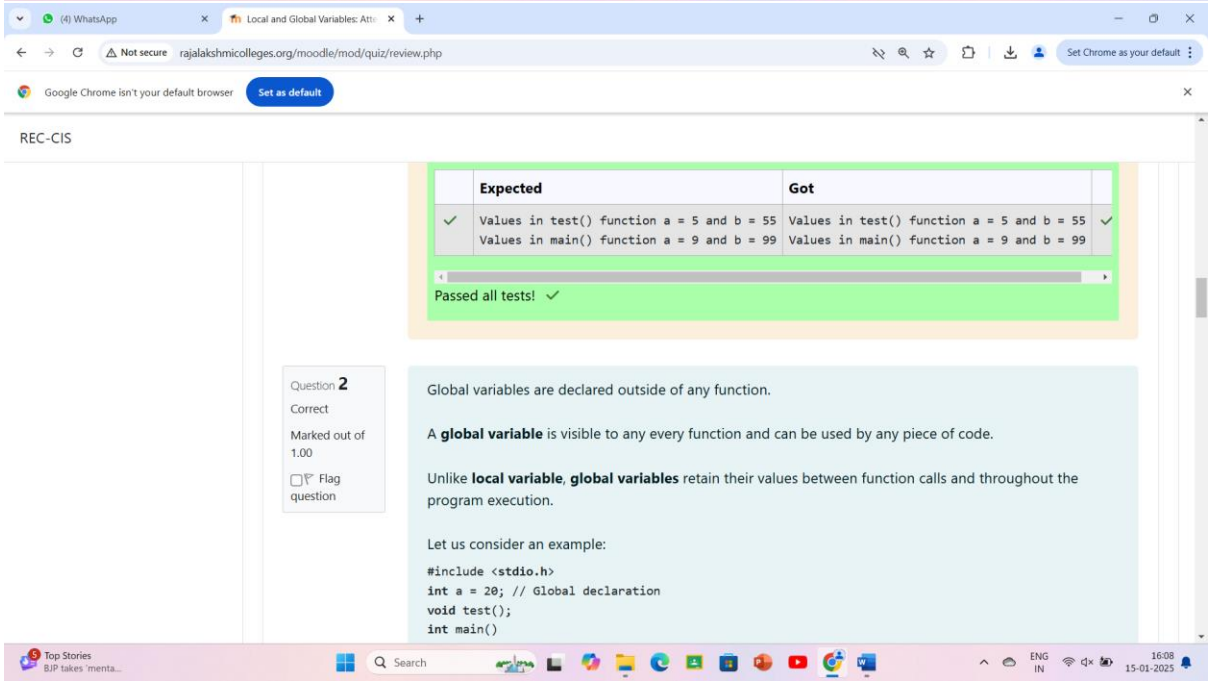
15-01-2025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REC-CIS
Expected
Got
Values in test() function a = 5 and b = 55
Values in main() function a = 9 and b = 99
Values in test() function a = 5 and b = 55
Values in main() function a = 9 and b = 99
Passed all tests!
Question 2
Correct
Marked out of 1.00
Flag question
Global variables are declared outside of any function.
A global variable is visible to any every function and can be used by any piece of code.
Unlike local variable, global variables retain their values between function calls and throughout the program execution.
Let us consider an example:
#include <stdio.h>
int a = 20; // Global declaration
void test();
int main()
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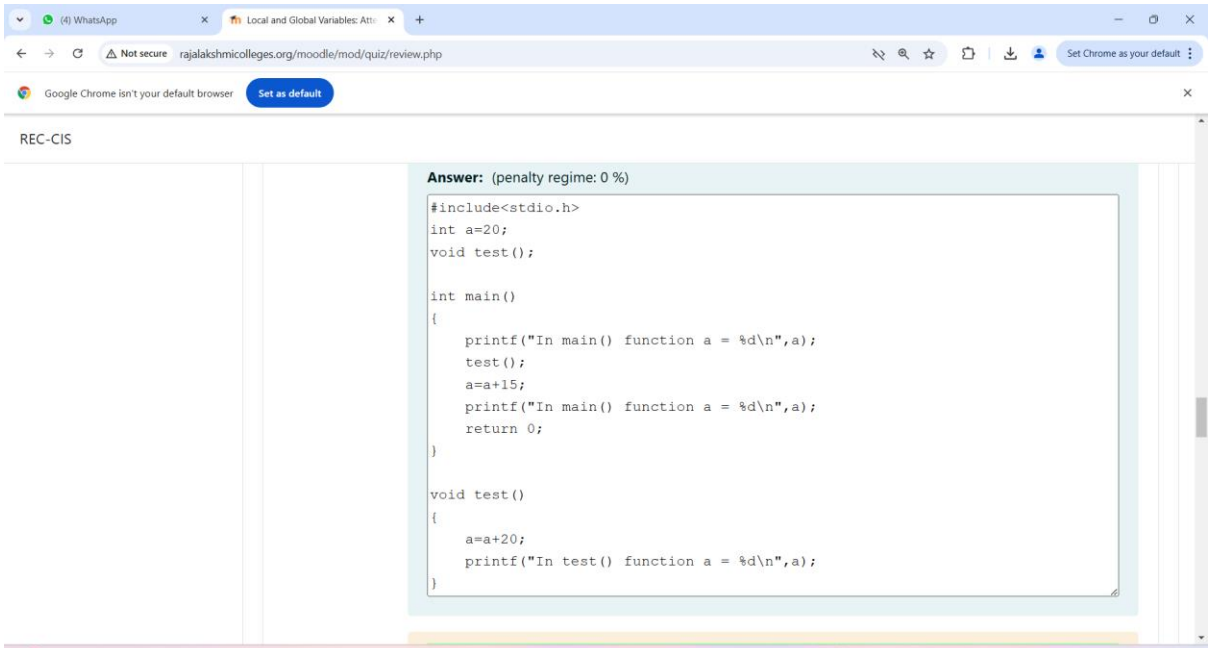
15-01-2025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REC-CIS
Answer: (penalty regime: 0 %)
#include<stdio.h>
int a=20;
void test();
int main()
{
printf("In main() function a = %d\n",a);
test();
a=a+15;
printf("In main() function a = %d\n",a);
return 0;
}
void test()
{
a=a+20;
printf("In test() function a = %d\n",a);
}
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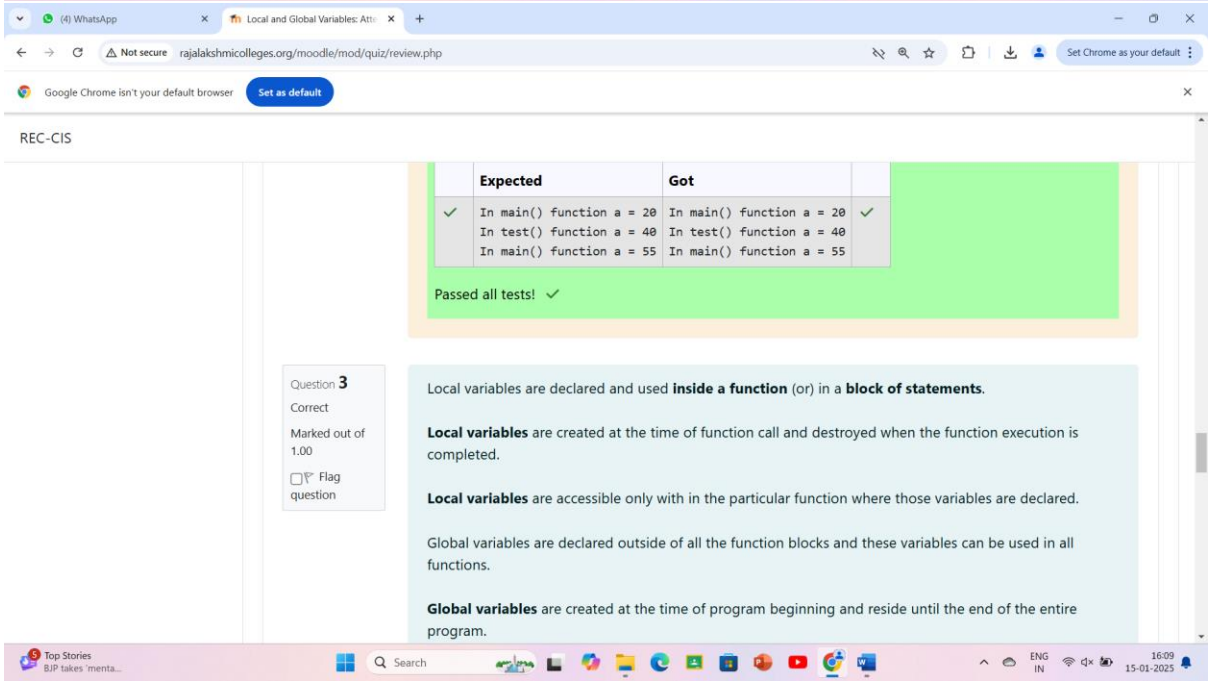
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Local and Global Variables: Atte
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Set Chrome as your default
Google Chrome isn't your default browser
Set as default
REC-CIS
Expected
Got
In main() function a = 20
In test() function a = 40
In main() function a = 55
In main() function a = 20
In test() function a = 40
In main() function a = 55
Passed all tests!
Question 3
Correct
Marked out of 1.00
Flag question
Local variables are declared and used inside a function (or) in a block of statements.
Local variables are created at the time of function call and destroyed when the function execution is completed.
Local variables are accessible only with in the particular function where those variables are declared.
Global variables are declared outside of all the function blocks and these variables can be used in all functions.
Global variables are created at the time of program beginning and reside until the end of the entire program.
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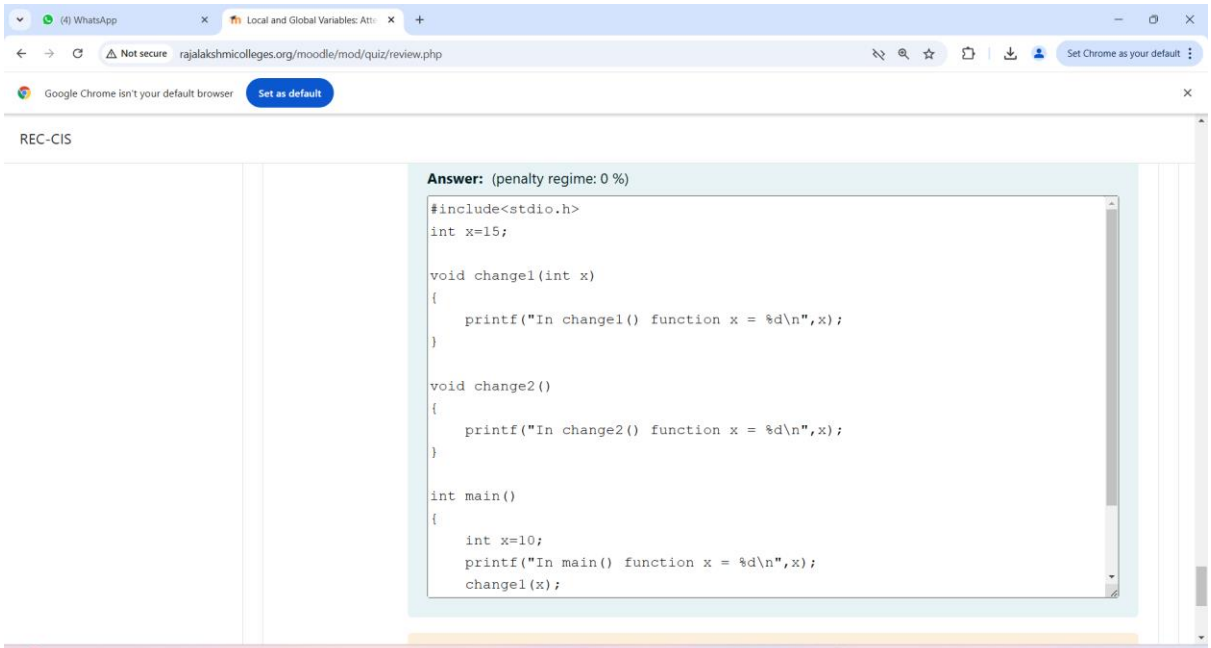
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Local and Global Variables: Att
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php
Set Chrome as your default
Google Chrome isn't your default browser
Set as default
REC-CIS
Answer: (penalty regime: 0 %)
#include<stdio.h>
int x=15;
void change1(int x)
{
printf("In change1() function x = %d\n",x);
}
void change2()
{
printf("In change2() function x = %d\n",x);
}
int main()
{
int x=10;
printf("In main() function x = %d\n",x);
change1(x);
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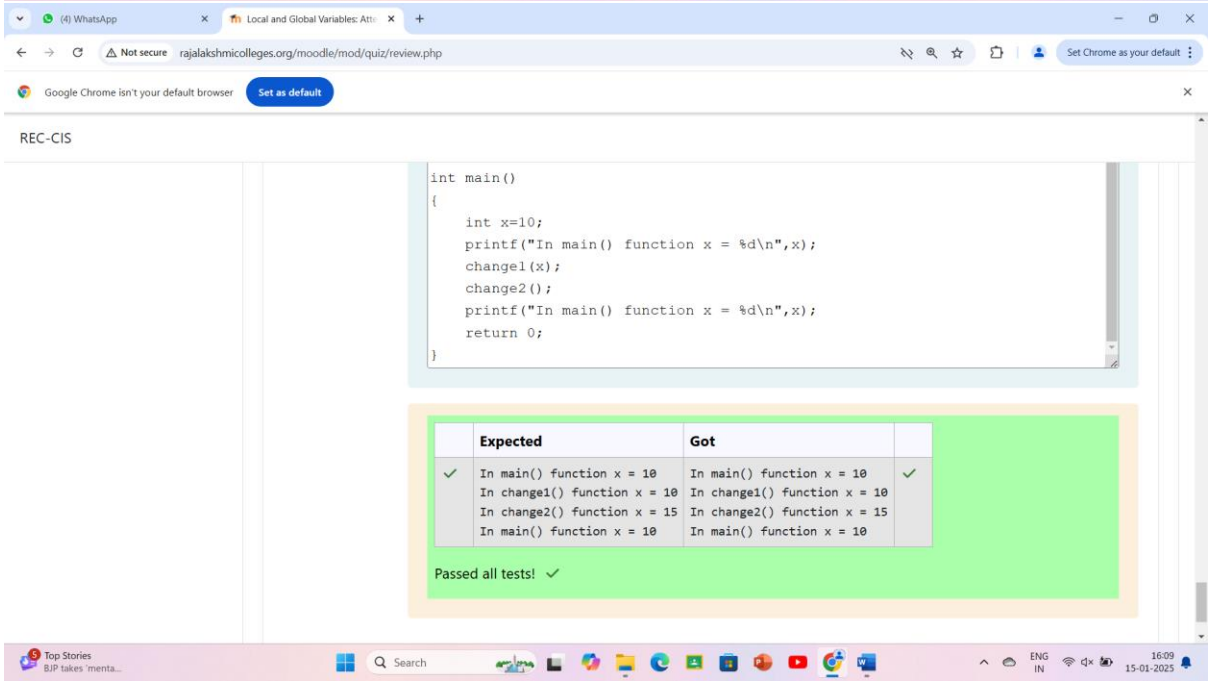
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int main()
{
int x=10;
printf("In main() function x = %d\n",x);
change1(x);
change2();
printf("In main() function x = %d\n",x);
return 0;
}
Expected
Got
In main() function x = 10
In change1() function x = 10
In change2() function x = 15
In main() function x = 10
In main() function x = 10
In change1() function x = 10
In change2() function x = 15
In main() function x = 10
Passed all tests!
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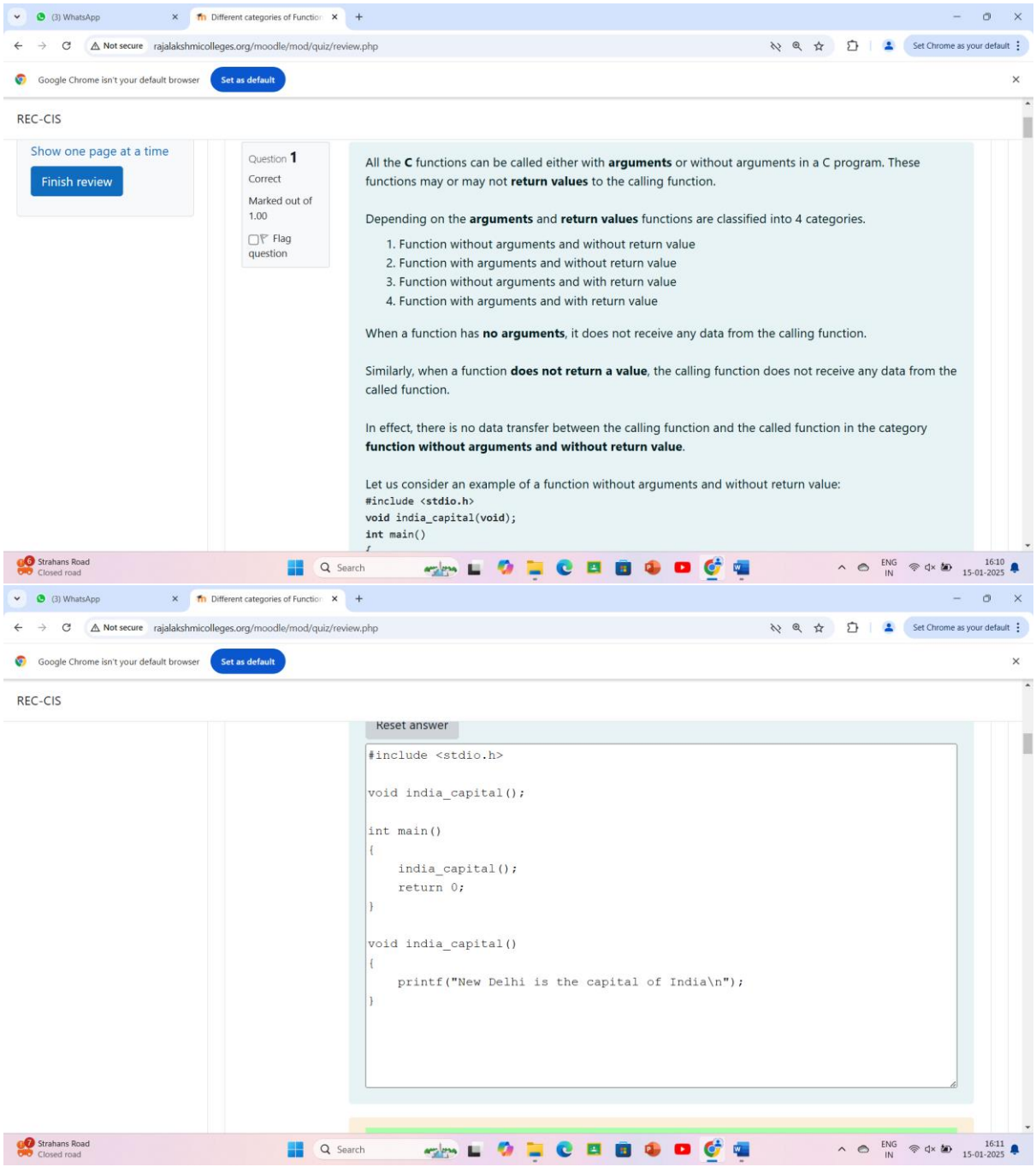
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Question 1
Correct
Marked out of 1.00
Flag question
All the C functions can be called either with arguments or without arguments in a C program. These functions may or may not return values to the calling function.
Depending on the arguments and return values functions are classified into 4 categories.
1. Function without arguments and without return value
2. Function with arguments and without return value
3. Function without arguments and with return value
4. Function with arguments and with return value
When a function has no arguments, it does not receive any data from the calling function.
Similarly, when a function does not return a value, the calling function does not receive any data from the called function.
In effect, there is no data transfer between the calling function and the called function in the category function without arguments and without return value.
Let us consider an example of a function without arguments and without return value:
#include <stdio.h>
void india_capital(void);
int main()
{
Strahans Road
Closed road
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REC-CIS
Reset answer
#include <stdio.h>
void india_capital();
int main()
{
india_capital();
return 0;
}
void india_capital()
{
printf("New Delhi is the capital of India\n");
}
Strahans Road
Closed road
Search
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IN
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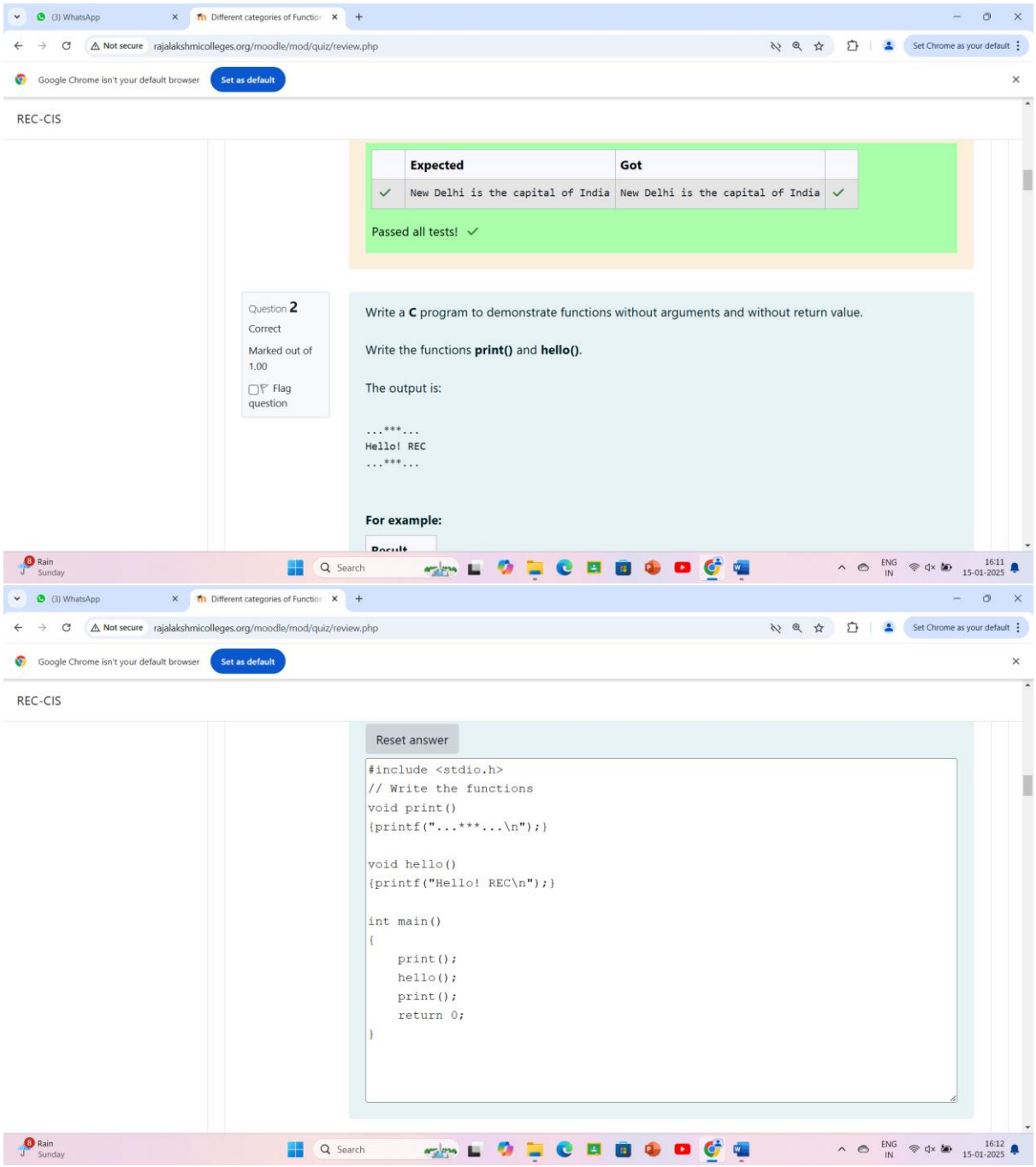

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	Expected	Got	
✓	New Delhi is the capital of India	New Delhi is the capital of India	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 1.00

Flag question

Write a **C** program to demonstrate functions without arguments and without return value.

Write the functions **print()** and **hello()**.

The output is:

```
...***...
Hello! REC
...***...
```

For example:

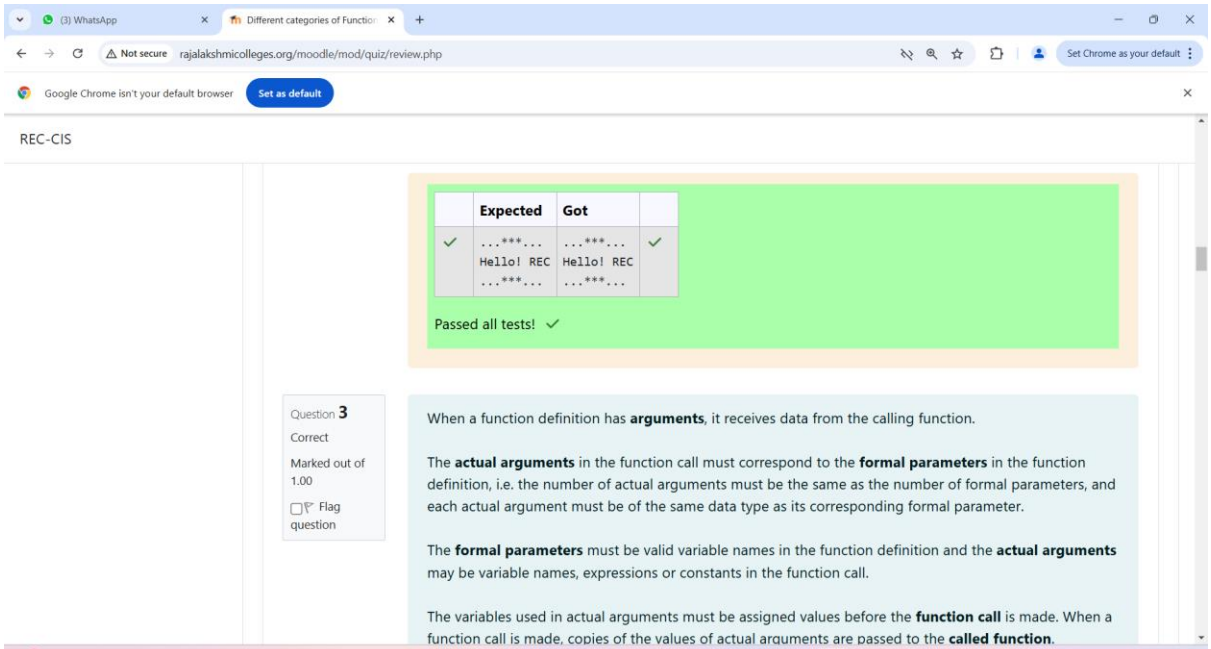
Result

Reset answer

```
#include <stdio.h>
// Write the functions
void print()
{printf("...***...\n");}

void hello()
{printf("Hello! REC\n");}

int main()
{
    print();
    hello();
    print();
    return 0;
}
```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Expected
Got
...***...
Hello! REC
...***...
Passed all tests!
Question 3
Correct
Marked out of 1.00
Flag question
When a function definition has arguments, it receives data from the calling function.
The actual arguments in the function call must correspond to the formal parameters in the function definition, i.e. the number of actual arguments must be the same as the number of formal parameters, and each actual argument must be of the same data type as its corresponding formal parameter.
The formal parameters must be valid variable names in the function definition and the actual arguments may be variable names, expressions or constants in the function call.
The variables used in actual arguments must be assigned values before the function call is made. When a function call is made, copies of the values of actual arguments are passed to the called function.
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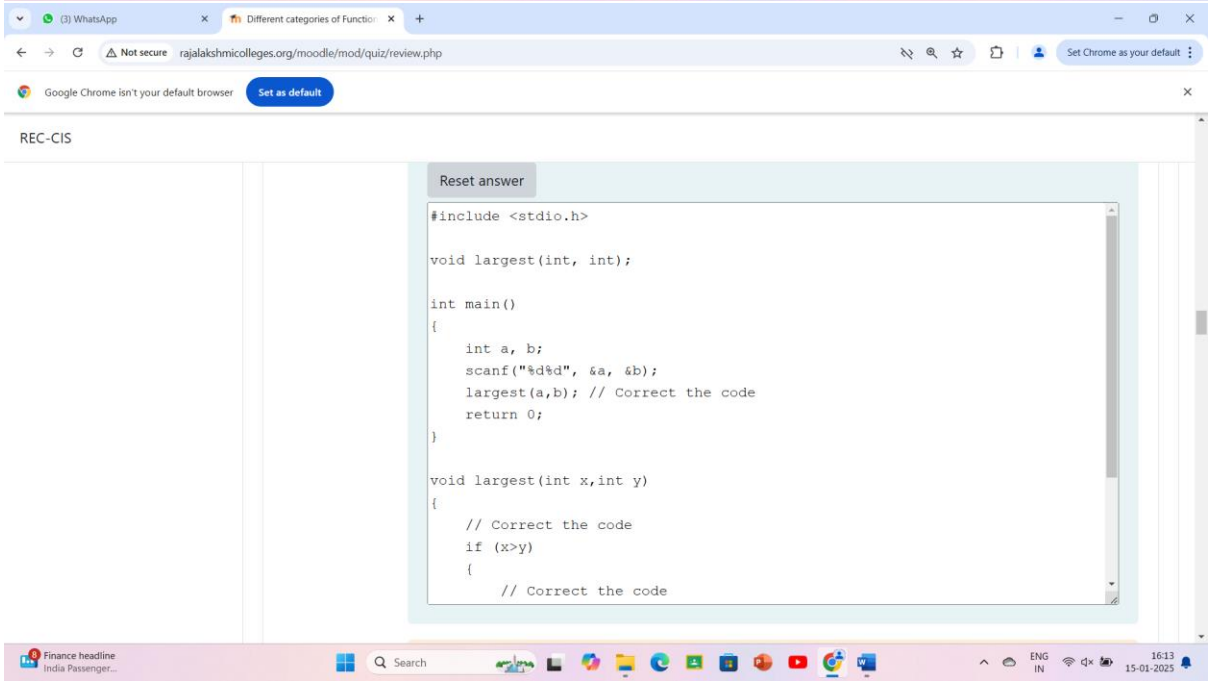
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#include <stdio.h>
void largest(int, int);
int main()
{
int a, b;
scanf("%d%d", &a, &b);
largest(a,b); // Correct the code
return 0;
}
void largest(int x,int y)
{
// Correct the code
if (x>y)
{
// Correct the code
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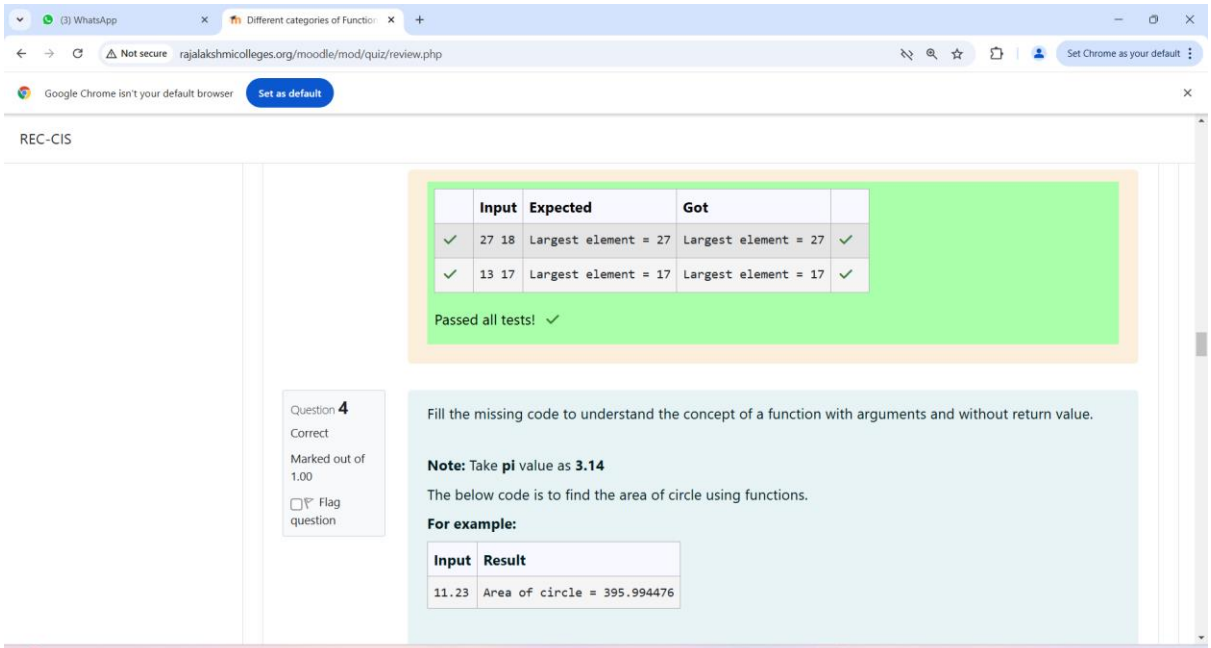
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REC-CIS
Input
Expected
Got
27 18
Largest element = 27
Largest element = 27
13 17
Largest element = 17
Largest element = 17
Passed all tests!
Question 4
Correct
Marked out of 1.00
Flag question
Fill the missing code to understand the concept of a function with arguments and without return value.
Note: Take pi value as 3.14
The below code is to find the area of circle using functions.
For example:
Input
Result
11.23
Area of circle = 395.994476
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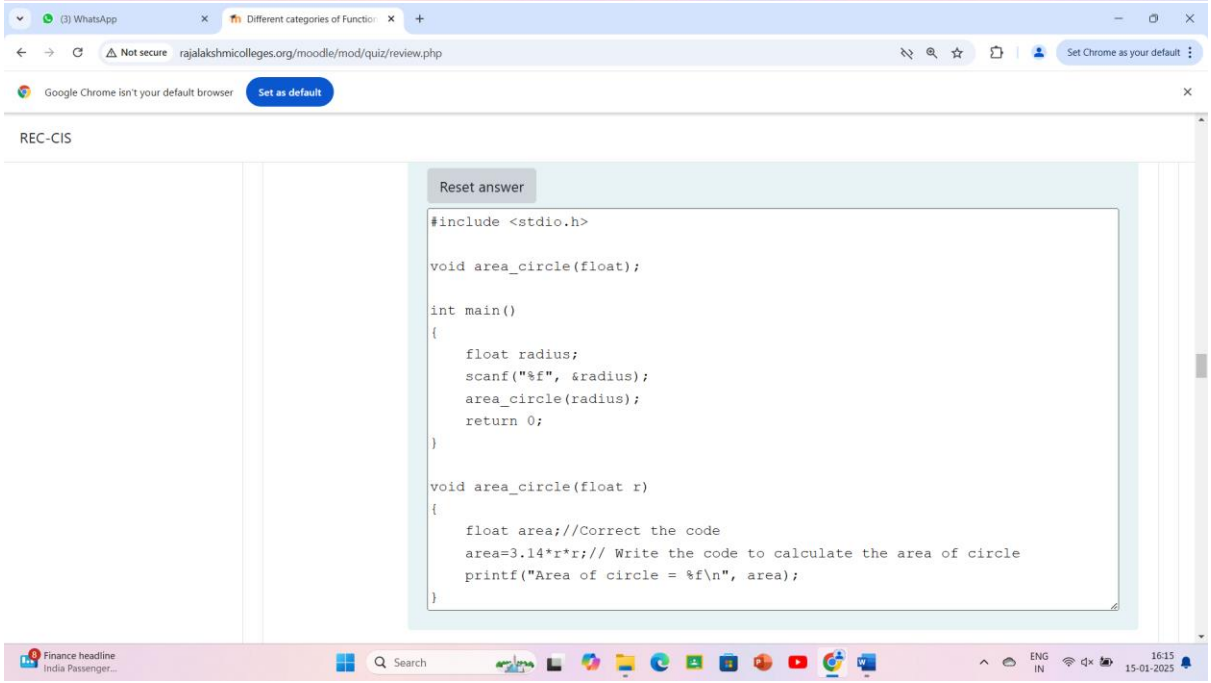
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Reset answer
#include <stdio.h>
void area_circle(float);
int main()
{
float radius;
scanf("%f", &radius);
area_circle(radius);
return 0;
}
void area_circle(float r)
{
float area;//Correct the code
area=3.14*r*r;// Write the code to calculate the area of circle
printf("Area of circle = %f\n", area);
}
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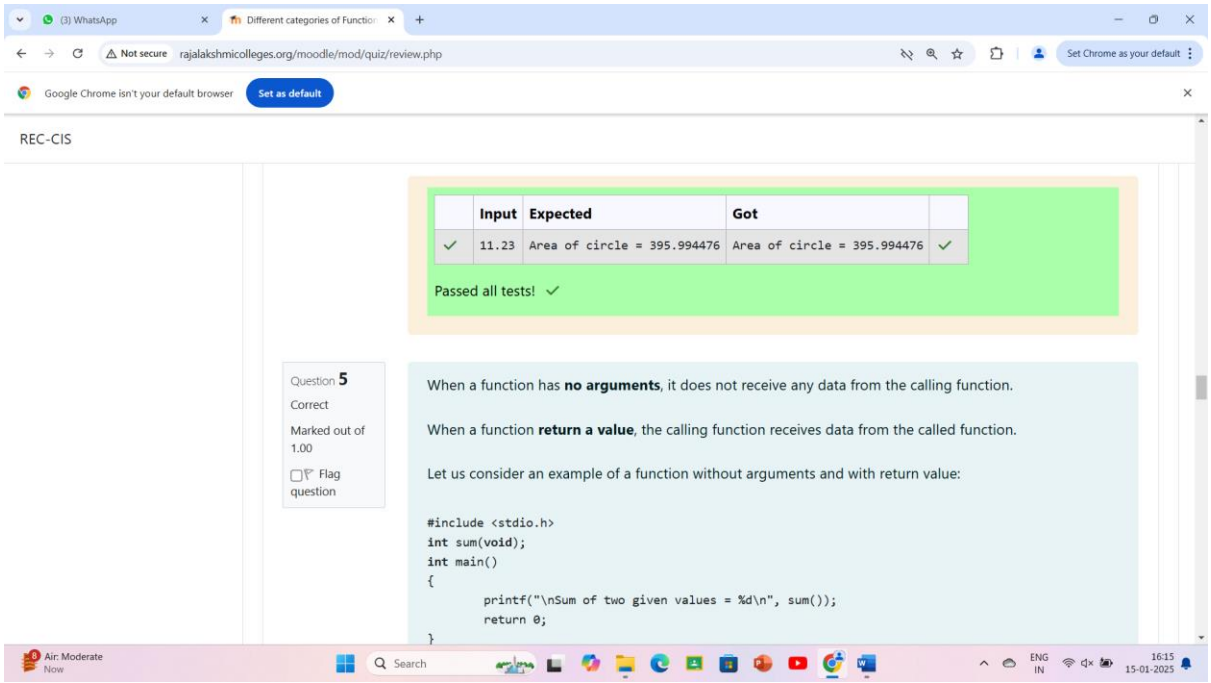
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REC-CIS
Input
Expected
Got
11.23
Area of circle = 395.994476
Area of circle = 395.994476
Passed all tests!
Question 5
Correct
Marked out of 1.00
Flag question
When a function has no arguments, it does not receive any data from the calling function.
When a function return a value, the calling function receives data from the called function.
Let us consider an example of a function without arguments and with return value:
#include <stdio.h>
int sum(void);
int main()
{
printf("\nSum of two given values = %d\n", sum());
return 0;
}
Air: Moderate
Now
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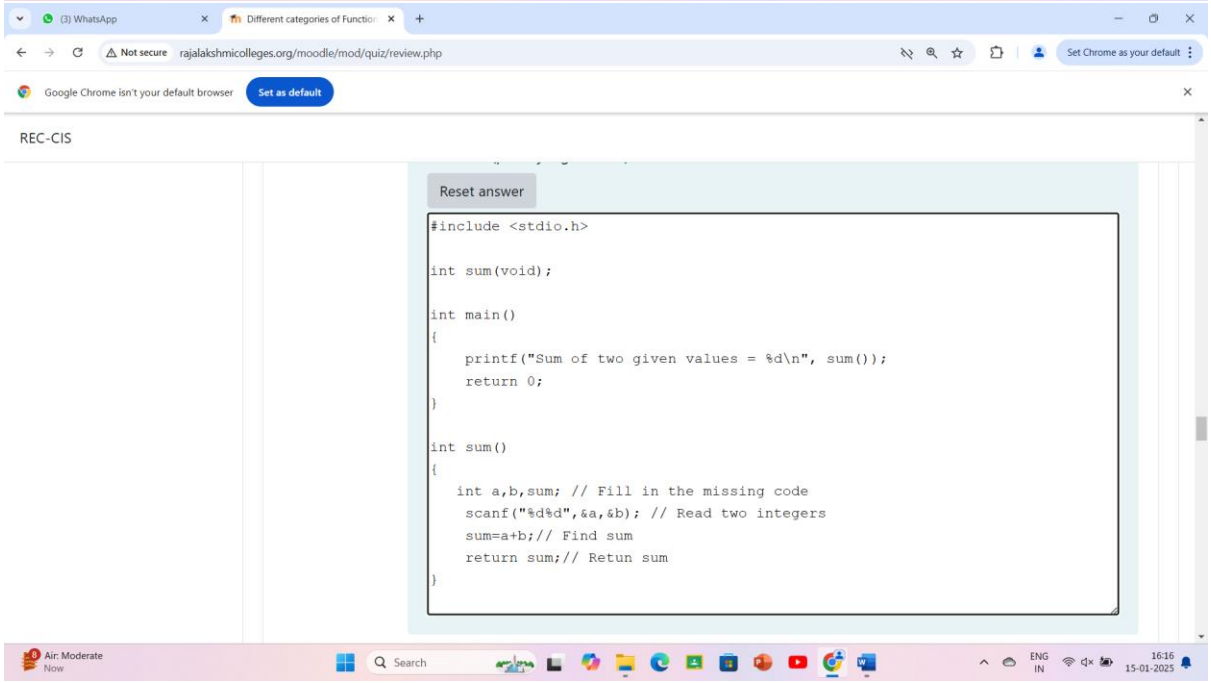
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Reset answer
#include <stdio.h>
int sum(void);
int main()
{
printf("Sum of two given values = %d\n", sum());
return 0;
}
int sum()
{
int a,b,sum; // Fill in the missing code
scanf("%d%d",&a,&b); // Read two integers
sum=a+b;// Find sum
return sum;// Retun sum
}
Air: Moderate
Now
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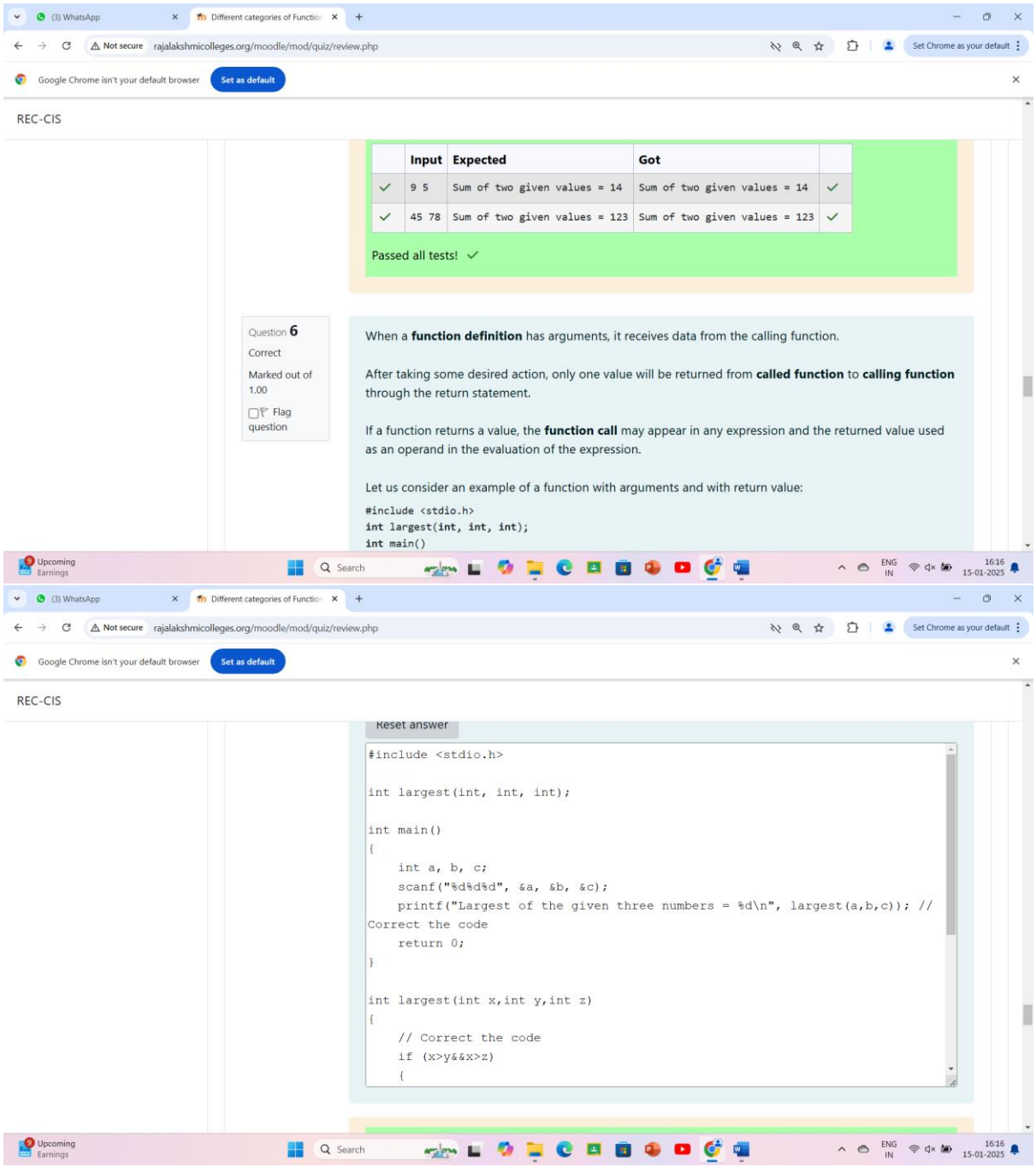
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Input
Expected
Got
9 5
Sum of two given values = 14
Sum of two given values = 14
45 78
Sum of two given values = 123
Sum of two given values = 123
Passed all tests!
Question 6
Correct
Marked out of 1.00
Flag question
When a function definition has arguments, it receives data from the calling function.
After taking some desired action, only one value will be returned from called function to calling function through the return statement.
If a function returns a value, the function call may appear in any expression and the returned value used as an operand in the evaluation of the expression.
Let us consider an example of a function with arguments and with return value:
#include <stdio.h>
int largest(int, int, int);
int main()
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Reset answer
#include <stdio.h>
int largest(int, int, int);
int main()
{
int a, b, c;
scanf("%d%d%d", &a, &b, &c);
printf("Largest of the given three numbers = %d\n", largest(a,b,c)); //
Correct the code
return 0;
}
int largest(int x,int y,int z)
{
// Correct the code
if (x>y&&x>z)
{
Upcoming Earnings
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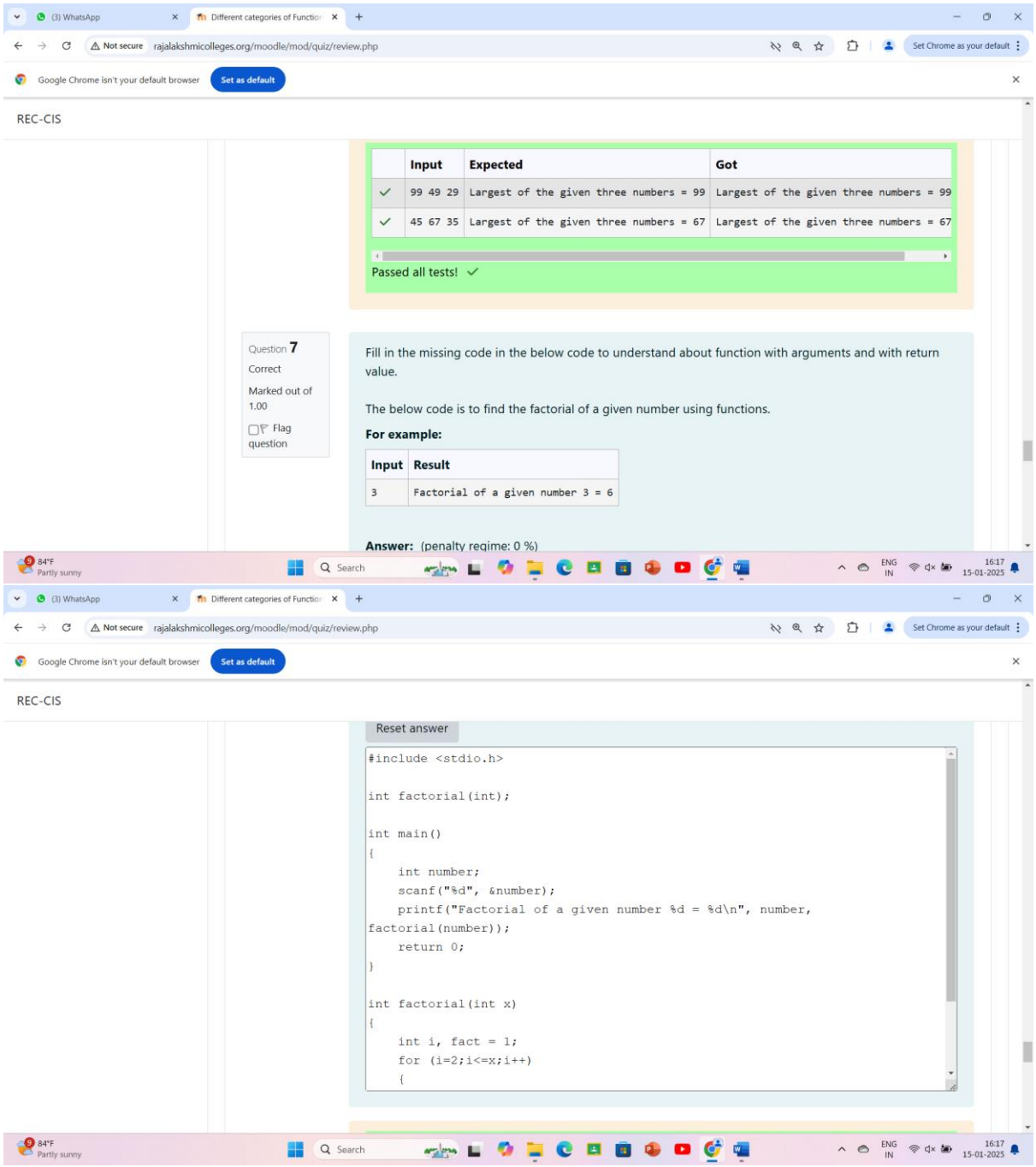

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	Input	Expected	Got
✓	99 49 29	Largest of the given three numbers = 99	Largest of the given three numbers = 99
✓	45 67 35	Largest of the given three numbers = 67	Largest of the given three numbers = 67

Passed all tests! ✓

Question 7
Correct
Marked out of 1.00
Flag question

Fill in the missing code in the below code to understand about function with arguments and with return value.

The below code is to find the factorial of a given number using functions.

For example:

Input	Result
3	Factorial of a given number 3 = 6

Answer: (penalty regime: 0 %)

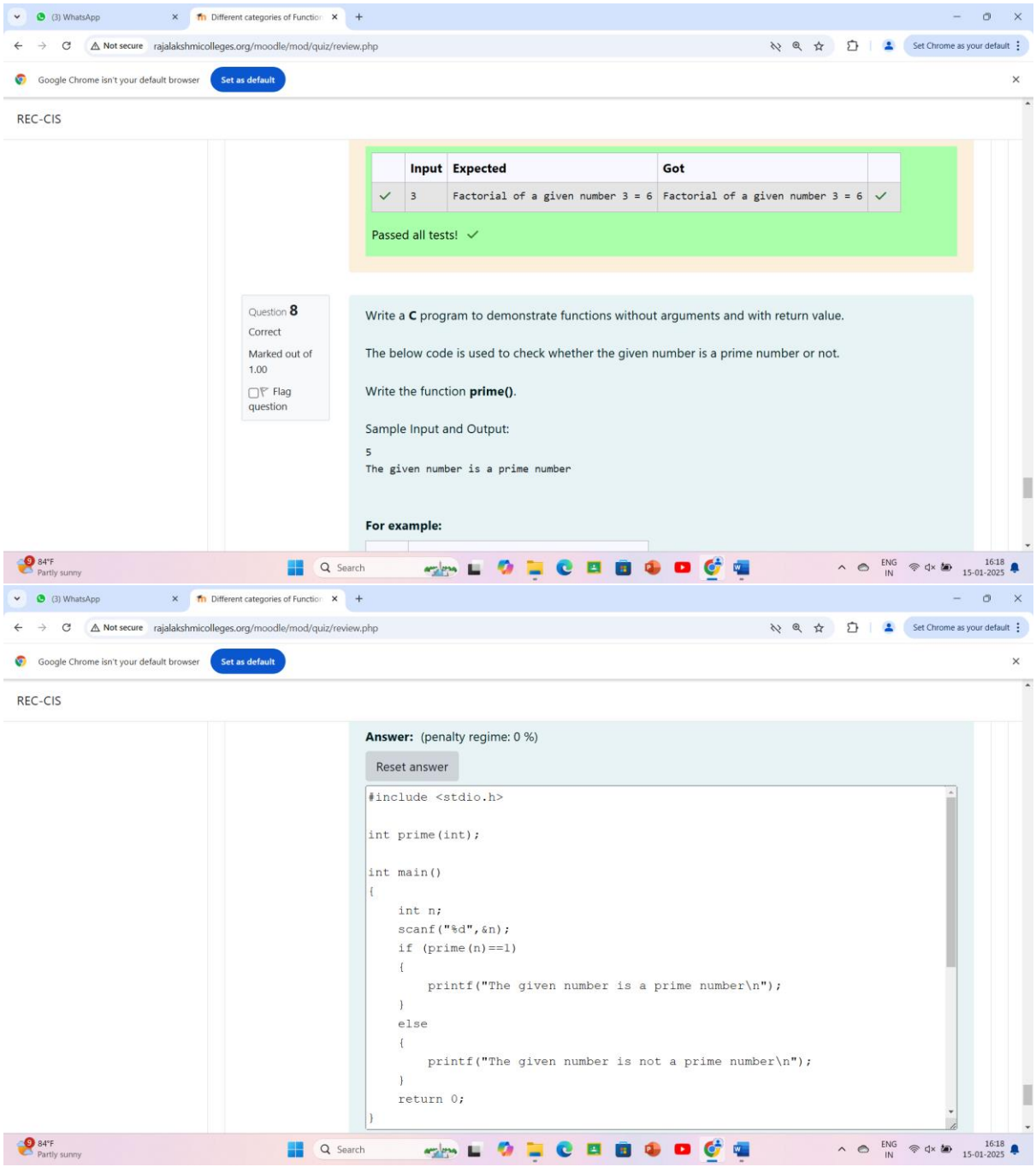
Reset answer

```
#include <stdio.h>

int factorial(int);

int main()
{
    int number;
    scanf("%d", &number);
    printf("Factorial of a given number %d = %d\n", number,
factorial(number));
    return 0;
}

int factorial(int x)
{
    int i, fact = 1;
    for (i=2;i<=x;i++)
    {
```



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	Input	Expected	Got	
✓	3	Factorial of a given number 3 = 6	Factorial of a given number 3 = 6	✓

Passed all tests! ✓

Question 8
Correct
Marked out of 1.00
Flag question

Write a **C** program to demonstrate functions without arguments and with return value.

The below code is used to check whether the given number is a prime number or not.

Write the function **prime()**.

Sample Input and Output:

```
5
The given number is a prime number
```

For example:

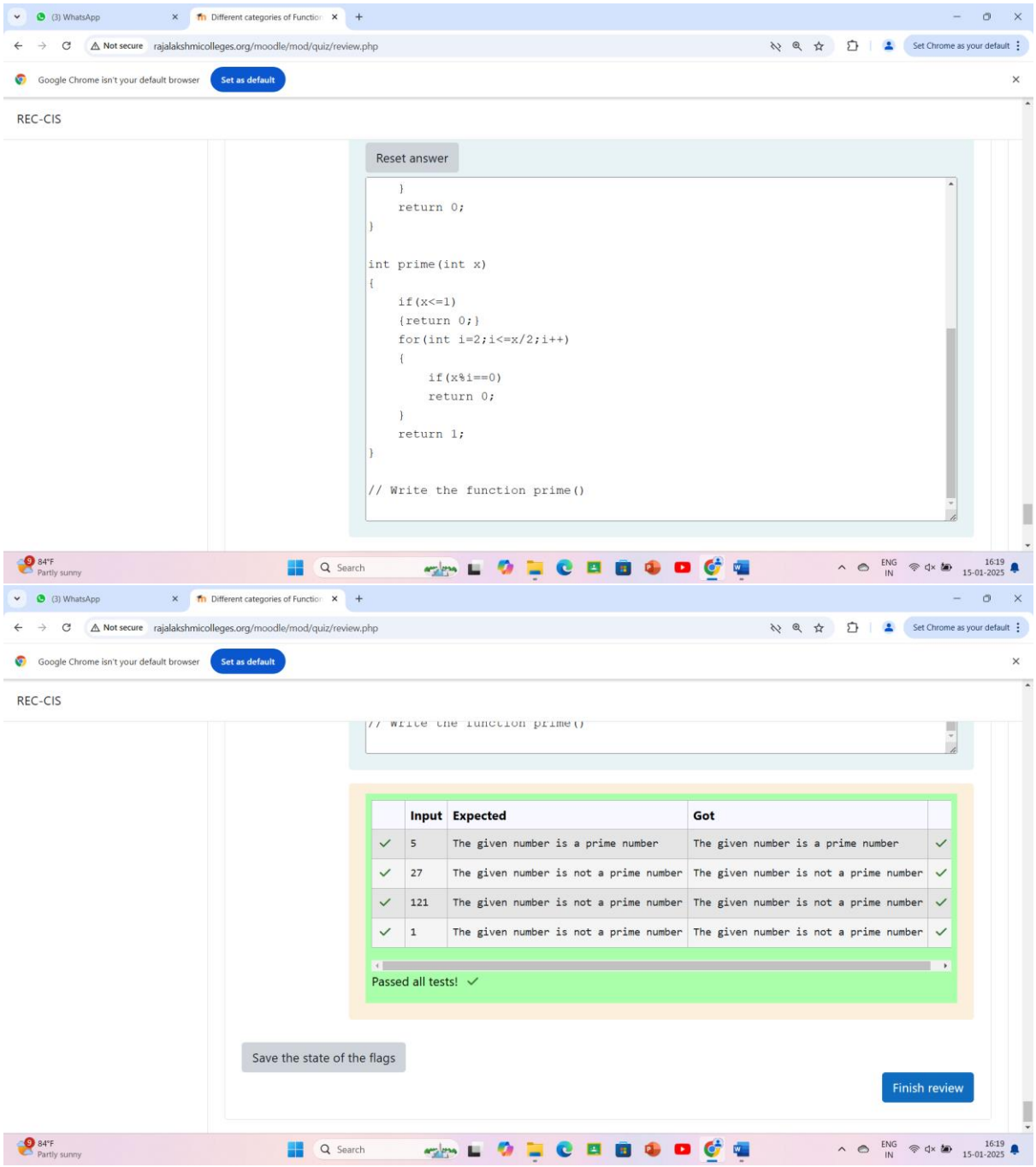
Answer: (penalty regime: 0 %)

Reset answer

```
#include <stdio.h>

int prime(int);

int main()
{
    int n;
    scanf("%d",&n);
    if (prime(n)==1)
    {
        printf("The given number is a prime number\n");
    }
    else
    {
        printf("The given number is not a prime number\n");
    }
    return 0;
}
```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}
return 0;
}
int prime(int x)
{
if(x<=1)
{return 0;}
for(int i=2;i<=x/2;i++)
{
if(x%i==0)
return 0;
}
return 1;
}
// Write the function prime()
84°F
Partly sunny
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// Write the function prime()
Input
Expected
Got
5
The given number is a prime number
The given number is a prime number
27
The given number is not a prime number
The given number is not a prime number
121
The given number is not a prime number
The given number is not a prime number
1
The given number is not a prime number
The given number is not a prime number
Passed all tests!
Save the state of the flags
Finish review
84°F
Partly sunny
Search
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