



Question 1

yet answered

Marked out of

Flag question

Select incorrect statement/s regarding "w" file opening mode.

```
FILE *ptr;  
ptr = fopen("readMe.dat","w");
```

Select one:

- 1. If the file exist, it will over write the previous content.
- 2. The "readMe.dat" file will be empty
- 3. If the file doesn't exist, a new file will be created.
- 4. If the file doesn't exists, the file pointer will be always null
- 5. The content will be added to the beginning of the file

A student has written the following C code to calculate the average height of students in the class. The program should read the heights from the keyboard until the user input -99. However program executes in an infinite loop.

```
float height, total , avg ;
```

```
int count = 0;
```

```
printf("Pls input the height");
```

```
scanf("%f", &height);
```

```
while ( height != -99)
```

```
{
```

```
    total = total + height;
```

```
}
```

```
avg = total / 5;
```

```
printf("%.2f", avg);
```

Select the reason to have a infinite loop during execution.

Select one:

- 1. The value of count variable has not been changed inside the loop
- 2. The scanf statement to take the keyboard inputs is not included Inside the loop
- 3. The count variable is not Initialize with 1.
- 4. The total and avg variables are not initialized.
- 5. The condition in the while loop is incorrect.

**Question 2**

Not yet answered

Marked out of
2.00

Flag question

The C statement “if ((x == 1) && (y == 2)) {}” can be re-written as

Select one:

- 1. if (x == 1);
if (y == 2){}
- 2. if (x == 1){}
if (y == 2){}
- 3. if (x == '1')
if (y == 2){}
- 4. if ((x = 1) && (y = 2)) ()
- 5. if (x == 1){}
else if (y == 2){}





what is the value of x ?

int x = 50 % 6 + 2 *3 + (4 - 1) / 2 + 9

Select one:

- 1. 18.5
- 2. 24
- 3. 16
- 4. 24.5
- 5. 18



Online Exams

Sri Lanka Institute of Information Technology

Lecturer wants to store the assignment1, assignment2 and final exam marks of 120 students in a class. Which of the following is/are the suitable array declaration/s to store these details.

Select one or more:

- 1. int marks[3];
- 2. int marks[3][120];
- 3. int marks[120][3];
- 4. int marks[120];
- 5. int marks[360];

Next page





Question 3

Not yet answered

Marked out of
2.00

Flag question

When an assertion statement fails

Select one:

- 1. Display a message and abort the program
- 2. No action takes place
- 3. display a message
- 4. Abort the program
- 5. Continue with the next statement after assert



Online Exams

Sri Lanka Institute of Information Technology

tion 2

et answered

ed out of

ag question

What is the common use/s of break statement?

Select one or more:

- 1. Immediate escape from a loop
- 2. Skip from the current iteration of a loop
- 3. Terminate the program
- 4. immediate escape from switch statement
- 5. None of the above

Next page

on 3

t answered

d out of

g question

What will happen when the following code segment is executed ?

```
int arr[5];
int temp = arr[0];
for (i=0; i < 4; i++)
{
    arr[i] = arr[i+1];
}
arr[i] = temp;
```

Select one:

- 1. Values of the first element and the last element are exchanged
- 2. Values of the array are rotated to backward direction
- 3. Values of the array is reversed
- 4. Values of the first element and the second element are exchanged
- 5. Values of the array are rotated to forward direction

**Question 4**

Not yet answered

Marked out of
2.00

Flag question

What is the value of x ?

 $\text{int } x = 20 / 3 + (5 - 1) * 2 - 60 \% 12$

Select one:

- a. 14.33
- b. 4
- c. 14
- d. 4.33
- e. 9



Online Exams

Sri Lanka Institute of Information Technology

Question 4

Not yet answered

Marked out of
0

Flag question

What is the common use/s of break statement?

Select one or more:

- 1. Immediate escape from a loop
- 2. Skip from the current iteration of a loop
- 3. Terminate the program
- 4. Immediate escape from switch statement
- 5. None of the above



Online Exams

Sri Lanka Institute of Information Technology

it2019

3
answered
out of
question

The C statement "if ((x == 1) && (y == 2)) {}" can be re-written as

Select one:

- 1. if (x == 1)
if (y == 2){}
- 2. if (x == 1){}
else if (y == 2){}
- 3. if (x == 1);
if (y == 2){}
- 4. if (x == 1){}
if (y == 2){}
- 5. if ((x = 1) && (y = 2)) {}

Next page

**Question 5**

Not yet answered

Marked out of
2.00

Flag question

A machine code

Select one or more:

- 1. can be easily understand by human
- 2. only understand by computers
- 3. is a binary code
- 4. written using highlevel language
- 5. written in low level language

Question 2

Not yet answered

Marked out of
2.00 Flag question

What will happen when the following code segment is executed?

```
int arr1[6] = { 10, 15, 20, 25, 30, 35 };  
int arr2[6] = {0};  
  
for (i=0; i < 6; i++)  
{  
    arr2[i] = arr1[5-i];  
}
```

Select one or more:

- 1. arr2 values are stored in arr1 in the same order
- 2. arr2 values are reversed and stored in arr1
- 3. arr1 values are stored in arr2 in reverse order
- 4. arr1 values will not be changed
- 5. arr1 values are stored in arr2 in the same order



**Question 6**

Not yet answered

Marked out of
2.00

Flag question

A student has written the following C code to calculate the average height of 5 students in the class. However program executes in an infinite loop.

```
float height, total , avg ;  
int count = 0;  
printf("Pls input the height");  
scanf("%f", &height);  
while ( count < 5)  
{  
    total = total + height;  
}  
avg = total / 5;  
printf("%.2f", avg);
```

Select the reason/s to have a infinite loop during execution.

Select one:

- 1. The repetition control variable has not been changed inside the loop
- 2. The total and avg variables are not initialized.
- 3. The condition in the while loop is incorrect.
- 4. The count variable is not initialize with 1.
- 5. The scanf statement to take the keyboard inputs is not included inside the loop





Question 3

Not yet answered

Marked out of
2.00

Flag question

Select incorrect statement/s regarding "a" file opening mode.

FILE *ptr;

ptr = fopen("readMe.dat","a");

Select one or more:

- 1. If the file exists, it will append the new content.
- 2. The new content will be added to the end of the file
- 3. If the file doesn't exist, a new file will be created.
- 4. If the file doesn't exist, the file pointer will be null
- 5. The "readMe.dat" file can't be empty



tion 7

et answered

ed out of

ag question

Lecturer wants to store the assignment1, assignment2 and final exam marks of 120 students in a class. Which of the following is/are the suitable array declaration/s to store these details.

Select one or more:

- 1. int marks[120];
- 2. int marks[360];
- 3. int marks[3];
- 4. int marks[3][120];
- 5. int marks[120][3];

Next

Select the correct statement/s about assert statement

Select one or more:

- 1. assert can terminate a program
- 2. assert statements written only in the main program
- 3. assert gives an error message
- 4. assert is used to test a function
- 5. assert statement always writes at the beginning of a program



Online Exams

Sri Lanka Institute of Information Technology



Question 4
Not yet answered
Marked out of
10

Lecturer wants to store the assignment1, assignment2 and final exam marks of 120 students in a class. Which of the following is/are the suitable array declaration/s to store these details.

Select one or more:

- 1. int marks[360];
- 2. int marks[120][3];
- 3. int marks[3];
- 4. int marks[120];
- 5. int marks[3][120];



Question 8

yet answered

marked out of

Flag question

Select the correct statement/s about functions

Select one or more:

- 1. The function body can have only one return statement
- 2. A function helps program debugging easier
- 3. A function name always should start with a letter
- 4. The function body should have atleast one program statement
- 5. Function is a block of statements that perform some specific task



Online Exams

Sri Lanka Institute of Information Technology

What is the common use/s of break statement?

Select one or more:

- 1. Immediate escape from a loop
- 2. Skip from the current iteration of a loop
- 3. Terminate the program
- 4. Immediate escape from switch statement
- 5. None of the above

**Question 9**

Not yet answered

Marked out of
2.00

Flag question

Select the correct statement/s about the "break" statement

Select one or more:

- 1. Used to immediately exit from the loop
- 2. Used to skip the remaining statements in a loop body and continue with a new iteration
- 3. Can be used with any repetition statement
- 4. Used only with repetition statements
- 5. Used to terminate the program



Online Exams

Sri Lanka Institute of Information Technology

Question 2

Not yet answered

Marked out of

0

Flag question

Select incorrect statement/s regarding "w" file opening mode.

FILE *ptr;

```
ptr = fopen("readMe.dat","w");
```

Select one:

- 1. If the file doesn't exist, a new file will be created.
- 2. The content will be added to the beginning of the file
- 3. If the file doesn't exists, the file pointer will be always null
- 4. If the file exist, it will over write the previous content.
- 5. The "readMe.dat" file will be empty

What is a Computer Program?

Select one or more:

- 1. A set of step by step instructions written using a *programming language*
- 2. A set of instructions given by the computer
- 3. A set of lines given to the computer
- 4. A set of data given to the computer
- 5. A sequence of instructions given to the computer



Question 6

Not yet answered

Marked out of
2.00

Flag question

A student has written the following C code to calculate the average height of students in the class. The program should read the heights from the keyboard until the user input -99. However program executes in an infinite loop.

float height, total , avg ;

int count = 0;

printf("Pls input the height");

scanf("%f", &height);

while (height != -99)

{

 total = total + height;

}

avg = total / 5;

printf("%.2f", avg);

Select the reason to have a infinite loop during execution.

Select one:

- 1. The condition in the while loop is incorrect.
- 2. The total and avg variables are not initialized.
- 3. The value of count variable has not been changed inside the loop
- 4. The scanf statement to take the keyboard inputs is not included inside the loop
- 5. The count variable is not initialize with 1.

≡ Quiz navi

I

MCQ (2 MARKS)

1 2 3

8 9 10

ESSAY (5 MARK)

11 12 13

18 19 20

ESSAY (10 MARK)

25

FEEDBACK

26 Go to Next page

Next Page



ation 10

et answered

ed out of

leg question

What will happen when the following code segment is executed?

```
int arr1[6] = { 10, 15, 20, 25, 30, 35 } ;  
int arr2[6] = {0};  
  
for (i=0; i < 6; i++)  
{  
    arr2[i] = arr1[5-i];  
}
```

Select one or more:

- 1. arr1 values are stored in arr2 in reverse order
- 2. arr1 values are stored in arr2 in the same order
- 3. arr1 values will not be changed
- 4. arr2 values are reversed and stored in arr1
- 5. arr2 values are stored in arr1 in the same order

Question 11

Not yet answered

Marked out of
5.00 Flag question

Copy and modify the given program to apply the coding conventions.

A courier service states their delivery charges according to the package size and the distance.

Service Type	Distance (km)	Charge for First 1 kg	Charge for additional 1 kg
Economy (E)	<= 10	200/=	100/=
	> 10	300/=	200/=
Standard (S)	<= 10	250/=	150/=
	> 10	350/=	250/=

The user inputs the service type, package size in kilograms and distance of the delivery in Kilometers through the keyboard. The program should display the payment of the customer for courier service. After displaying the payment of first customer, the program should prompt "Do you need more courier services?" If the user inputs "Y", program should ask for the service type, package size and distance of next service. If the user inputs "N" program should terminate.

```
#include <stdio.h>
int main()
{float distance, size, payment;
char type, answer;
do{
printf("Enter service type : ");
scanf("%c", &type);
printf("Enter package size in kg : ");
scanf("%f", &size);
printf("Enter distance in km : ");
scanf("%f", &distance);
if(type=='E'){
if(distance<=10)

```

≡ Quiz navigation 1

MCQ (2 MARKS EACH)

1 2 3 4 5 6

8 9 10

ESSAY (5 MARKS EACH)

11 12 13 14 15 16

18 19 20 21 22 23

ESSAY (10 MARKS EACH)

25

FEEDBACK

26

Finish attempt ...

Time left 1:43:35

What is the common use/s of break statement?

Select one or more:

- 1. Immediate escape from a loop
- 2. Skip from the current iteration of a loop
- 3. Terminate the program
- 4. Immediate escape from switch statement
- 5. None of the above

what is the value of x ?

int x = 50 % 6 + 2 *3 + (4 - 1) / 2 + 9

Select one:

- 1. 24
- 2. 24.5
- 3. 18.5
- 4. 16
- 5. 18

```
#include <stdio.h>

int main()
{
    float distance, size, payment;
    char type, answer;
    do{
        printf("Enter service type : ");
        scanf(" %c", &type);
        printf("Enter package size in kg : ");
        scanf("%f", &size);
        printf("Enter distance in km : ");
        scanf("%f", &distance);
        if(type=='E'){
            if(distance<=10)
                payment=200+(size-1)*100;
            else
                payment=300+(size-1)*200;}
            else if(type=='S'){
                if(distance<=10)
                    payment=250+(size-1)*150;
                else
                    payment=350+(size-1)*250;}
            else {
                printf("invalid service type\n");
                payment=0;}
            printf("The payment is %.2f\n", payment);
            printf("\n");
    }while(answer=='Y' || answer=='y');
```



Online Exams

Sri Lanka Institute of Information Technology

Select the correct statement/s about functions.

Select one or more:

- 1. A function can return more than one value
- 2. Functions are set of statements that can be re-used
- 3. A function can return only one value
- 4. A function can be called inside another function
- 5. Every C program should have atleast one function



Copy and modify the given program to apply the coding conventions.

A courier service states their delivery charges according to the package size and the distance.

Service Type	Distance (km)	Charge for First 1 kg	Charge for additional 1 kg
Economy (E)	<= 10	200/=	100/=
	> 10	300/=	200/=
Standard (S)	<= 10	250/=	150/=
	> 10	350/=	250/=

When an assertion statement fails

Select one:

- 1. Continue with the next statement after assert
- 2. Abort the program
- 3. display a message
- 4. Display a message and abort the program
- 5. No action takes place



Online Exams

Sri Lanka Institute of Information Technology

Question 9

Not yet answered

Marked out of
0

Flag question

Select the correct statement/s about functions.

Select one or more:

- 1. Functions are set of statements that can be re-used any number of times.
- 2. A function can return more than one value
- 3. A function can be called inside another function many times.
- 4. Every C program should have atleast one function
- 5. A function can return only one value



Online Exams

Sri Lanka Institute of Information Technology

Select the correct statement/s about functions.

Select one or more:

- 1. A function can return more than one value
- 2. Functions are set of statements that can be re-used
- 3. A function can return only one value
- 4. A function can be called inside another function
- 5. Every C program should have atleast one function

Select the correct statement/s about functions.

Select one or more:

- 1. A function can be called inside another function many times.
- 2. Functions are set of statements that can be re-used any number of times.
- 3. Every C program should have atleast one function
- 4. A function can return only one value
- 5. A function can return more than one value



Online Exams

Sri Lanka Institute of Information Technology

Question 4

Not yet answered

Marked out of
0.00

* Flag question

The C statement "if ((x == 1) && (y == 2)) {}" can be re-written as

Select one:

- 1. if (x == 1){}
 if (y == 2){}
- 2. if (x == 1)
 if (y == 2){}
- 3. if (x == 1){}
 else if (y == 2){}
- 4. if ((x = 1) && (y = 2)) {}
- 5. if (x == 1);
 if (y == 2){}



Sri Lanka Institute of Information Technology

A student has written the following C code to calculate the average height of 5 students in the class. However program executes in an infinite loop.

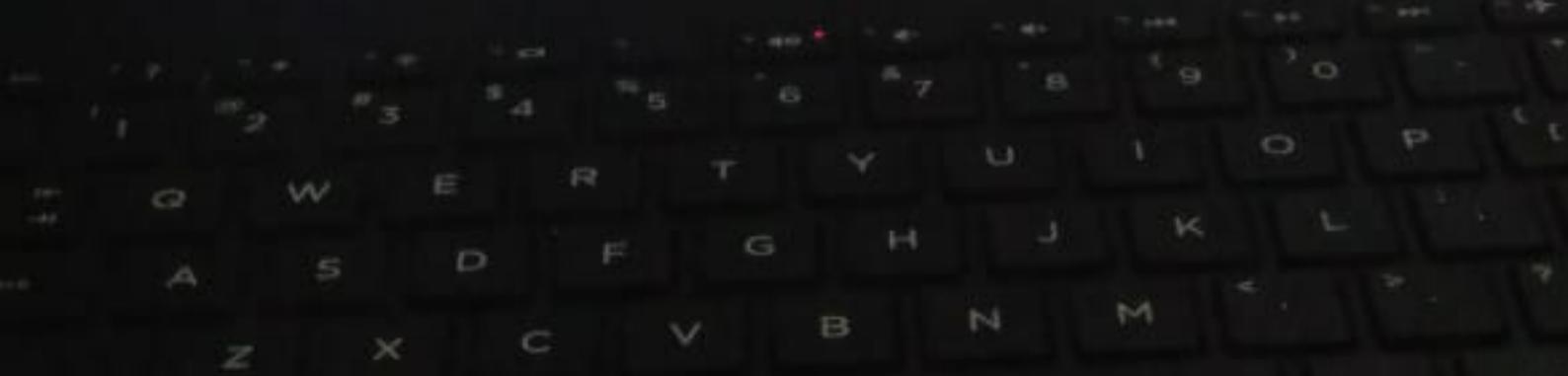
```
float height, total, avg;  
int count = 0;  
printf("Pis input the height");  
scanf("%f", &height);  
while (count < 5)  
{  
    total = total + height;  
}  
avg = total / 5;  
printf("%.2f", avg);
```

Select the reason/s to have a infinite loop during execution.

Select one:

- 1. The scanf statement to take the keyboard inputs is not included inside the loop
- 2. The total and avg variables are not initialized.
- 3. The repetition control variable has not been changed inside the loop
- 4. The count variable is not initialize with 1.
- 5. The condition in the while loop is incorrect.

Next page



**Question 5**

Not yet answered

Marked out of
2.00

Flag question

A student has written the following C code to calculate the average height of 5 students in the class. However program executes in an infinite loop.

```
float height, total , avg ;  
int count = 0;  
printf("Pls input the height");  
scanf("%f", &height);  
while ( count < 5)  
{  
    total = total + height;  
}  
avg = total / 5;  
printf("%.2f", avg);
```

Select the reason/s to have a infinite loop during execution.

Select one:

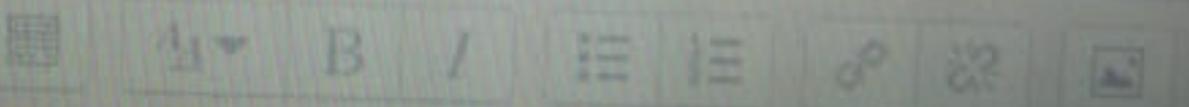
- 1. The scanf statement to take the keyboard inputs is not included inside the loop
- 2. The total and avg variables are not initialized.
- 3. The repetition control variable has not been changed inside the loop
- 4. The count variable is not initialize with 1.
- 5. The condition in the while loop is incorrect.

Lecturer wants to store the assignment1, assignment2 and final exam marks of 120 students in a class. Which of the following is/are the suitable array declaration/s to store these details.

Select one or more:

- 1. int marks[120][3];
- 2. int marks[3];
- 3. int marks[360];
- 4. int marks[120];
- 5. int marks[3][120];

```
scanf("%c", &type);
printf("Enter package size in kg : ");
scanf("%f", &size);
printf("Enter distance in km : ");
scanf("%f", &distance);
if(type=='E'){
    if(distance<=10)
        payment=200+(size-1)*100;
    else
        payment=300+(size-1)*200;}
    else if(type=='S'){
        if(distance<=10)
            payment=250+(size-1)*150;
        else
            payment=350+(size-1)*250;}
    else {
        printf("Invalid service type\n");
        payment=0;}
    printf("The payment is %.2f\n", payment);
    printf("\n");
    printf ("Do you need more courier services? ");
    scanf(" %c", &answer);}while(answer=='Y');
return 0;}
```





Online Exams

Sri Lanka Institute of Information Technology

Question 6

Not yet answered

Marked out of
2.00

Flag question

What is a Computer Program?

Select one or more:

- 1. A set of step by step instructions written using a programming language
- 2. A sequence of instructions given to the computer
- 3. A set of instructions given by the computer
- 4. A set of data given to the computer
- 5. A set of lines given to the computer



Question 7

Not yet answered

Marked out of
2.00

Flag question

What will happen when the following code segment is executed?

```
int arr1[6] = { 10, 15, 20, 25, 30, 35 } ;  
int arr2[6] = {0} ;  
  
for (i=0; i < 6; i++)  
{  
    arr2[i] = arr1[5-i];  
}
```

Select one or more:

- 1. arr2 values are stored in arr1 in the same order
- 2. arr2 values are reversed and stored in arr1
- 3. arr1 values will not be changed
- 4. arr1 values are stored in arr2 in the same order
- 5. arr1 values are stored in arr2 in reverse order



Online Exams

Sri Lanka Institute of Information Technology

The C statement "if ((x == 1) || (y == 2)) {}" can be re-written as

Select one:

- 1. if (x == 1){}
else if (y == 2){}
- 2. if (x = 1);
if (y = 2)) {}
- 3. if (x == 1){}
if (y == 2){}
- 4. if (x == 1)
if (y == 2){}
- 5. if ((x = 1) || (y = 2)){}



Question 7

Not yet answered

Marked out of
2.00 Flag question

What will happen when the following code segment is executed?

```
int arr1[6] = { 10, 15, 20, 25, 30, 35 } ;  
int arr2[6] = {0};  
  
for (i=0; i < 6; i++)  
{  
    arr2[i] = arr1[5-i];  
}
```

Select one or more:

- 1. arr2 values are stored in arr1 in the same order
- 2. arr2 values are reversed and stored in arr1
- 3. arr1 values will not be changed
- 4. arr1 values are stored in arr2 in the same order
- 5. arr1 values are stored in arr2 in reverse order



Online Exams

Sri Lanka Institute of Information Technology

Question 10

Not yet answered

Marked out of
2.00

Flag question

What will happen when the following code segment is executed ?

```
int arr[5];
int temp = arr[0];
for (i=0; i < 4; i++)
{
    arr[i] = arr[i+1];
}
arr[i] = temp;
```

Select one:

- 1. Values of the array are rotated to forward direction
- 2. Values of the array are rotated to backward direction
- 3. Values of the first element and the last element are exchanged
- 4. Values of the array is reversed
- 5. Values of the first element and the second element are exchanged





Question 8

Not yet answered

Marked out of
100

Flag question

What is the value of x ?

`int x = 20 / 3 + (5 - 1) * 2 - 60 % 12`

Select one:

- a. 14
- b. 9
- c. 4
- d. 14.33
- e. 4.33



Question 12

Not yet answered

Marked out of
5.00

Flag question

Consider the following table having two columns. First column has line numbers and the second has different programming statements and expressions. Write the line numbers of the relevant statements in correct order to obtain the following output.

No	Supportive components for program writing
1	{
2)
3	for(int j=0;j<=6;j++)
4	printf("* ");
5	for(int j=1;j<=6;j++)
6	printf("\n ");
7	for(int j=0;j<=16;j++);
8	for(int j=1;j == 6;j++)
9	for(int k=1;k<=6;k++)
10	for(int k=j;k<=6;k++)
11	if (j == k)
12	else

Output

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

≡ Qu

MCQ (

1

8

ESSAY

11

18

ESSAY

25

FEEDBA

26

Finish at

Time left



Question 12

Not yet answered

Marked out of

5.00

Flag question

Consider the following table having two columns. First column has line numbers and the second has different programming statements and expressions. Write the line numbers of the relevant statements in correct order to obtain the following output.

No	Supportive components for program writing
1	{
2)
3	for(int j=0;j<=6;j++)
4	printf("* ");
5	for(int j=1;j<=6;j++)
6	printf("\n ");
7	for(int j=0;j<=16;j++);
8	for(int j=1;j == 6;j++)
9	for(int k=1;k<=6;k++)
10	for(int k=j;k<=6;k++)
11	if (j == k)
12	else

Output:

```
*****
 *****
 *****
 *****
 *****
 *****
 *****
```

≡ Quiz navigation

1

MCQ (2 MARKS EACH)

1	2	3	4	5	6
8	9	10			

ESSAY (5 MARKS EACH)

11	12	13	14	15	16
18	19	20	21	22	23

ESSAY (10 MARKS EACH)

25

FEEDBACK

26

Finish attempt ...

Time left 1:30:07

Question 11

Not yet answered

Marked out of
5.00

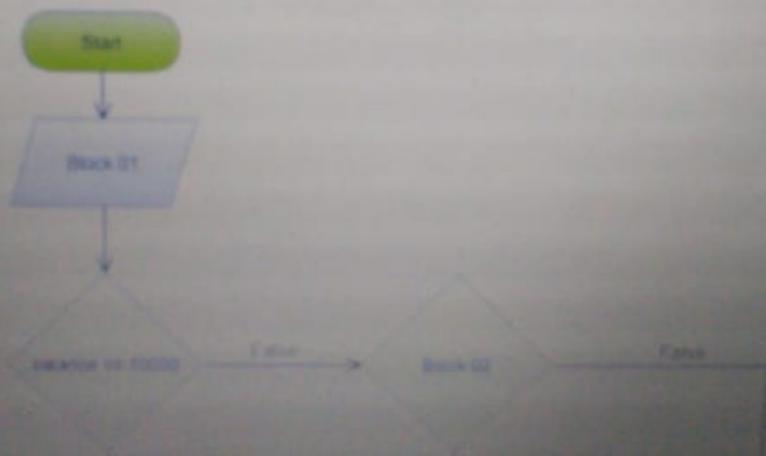
Flag question

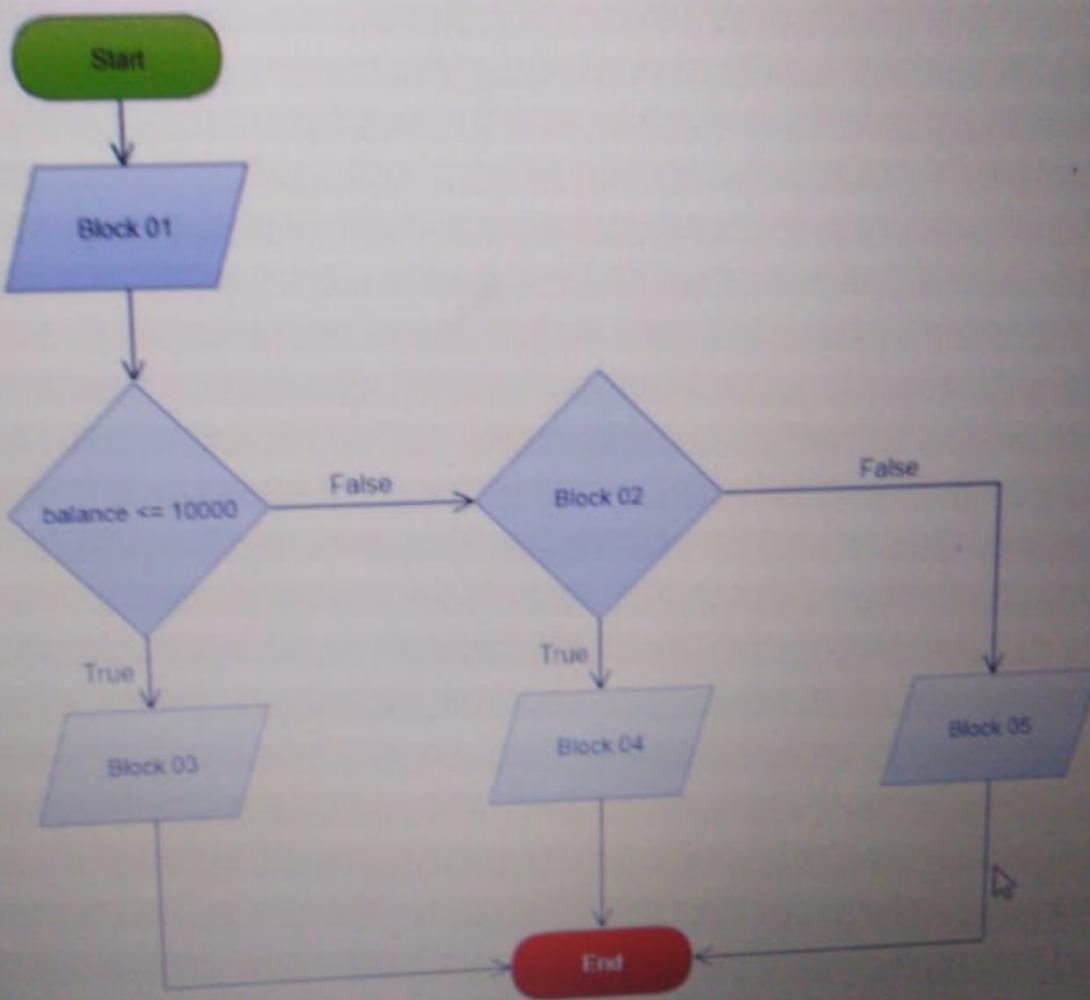
A bank is giving complements for their customers who open a new account on the new year day.

The following flowchart is drawn to decide the prize given for a customer.

Write the relevant instructions (Block 1 -5) in the given space.

Opening Balance	Prize
Less than 10000 or 10000	Umbrella
More than 10000 but less than 50000	Traveling bag
50000 or more	Rice cooker







Online Exams

Sri Lanka Institute of Information Technology

Question 9

Not yet answered

Marked out of
2.00[Flag question](#)

A fashion store has 4 branches and asks 7 customers to rate their customer service in each branch. The rate value will be given like this.

1 – Very poor, 2 – Weak, 3 – Satisfactory, 4 – Good, 5 – Excellent

The fashion store expects to gather these details within 2D array that already created.

Select the suitable array/s to store these details.

Select one or more:

- 1. int service[4][7];
- 2. int service[7][4];
- 3. int service[5][7];
- 4. int service[6][3];
- 5. int service[7][5];

[Next page](#)



Question 11

Not yet answered

Marked out of
5.00

Flag question

Complete the following C code to reverse the data stored in an array. (use a loop)
starting array values

2	5	8	4	9
---	---	---	---	---

after reverse array values

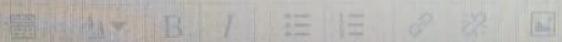
9	4	8	5	2
---	---	---	---	---

```
# include <stdio.h>
int main(void)
{
    int num[5] = {2, 5, 8, 4, 9};
```

.....
.....
.....

```
    return 0;
```

```
}
```





n 10

t answered

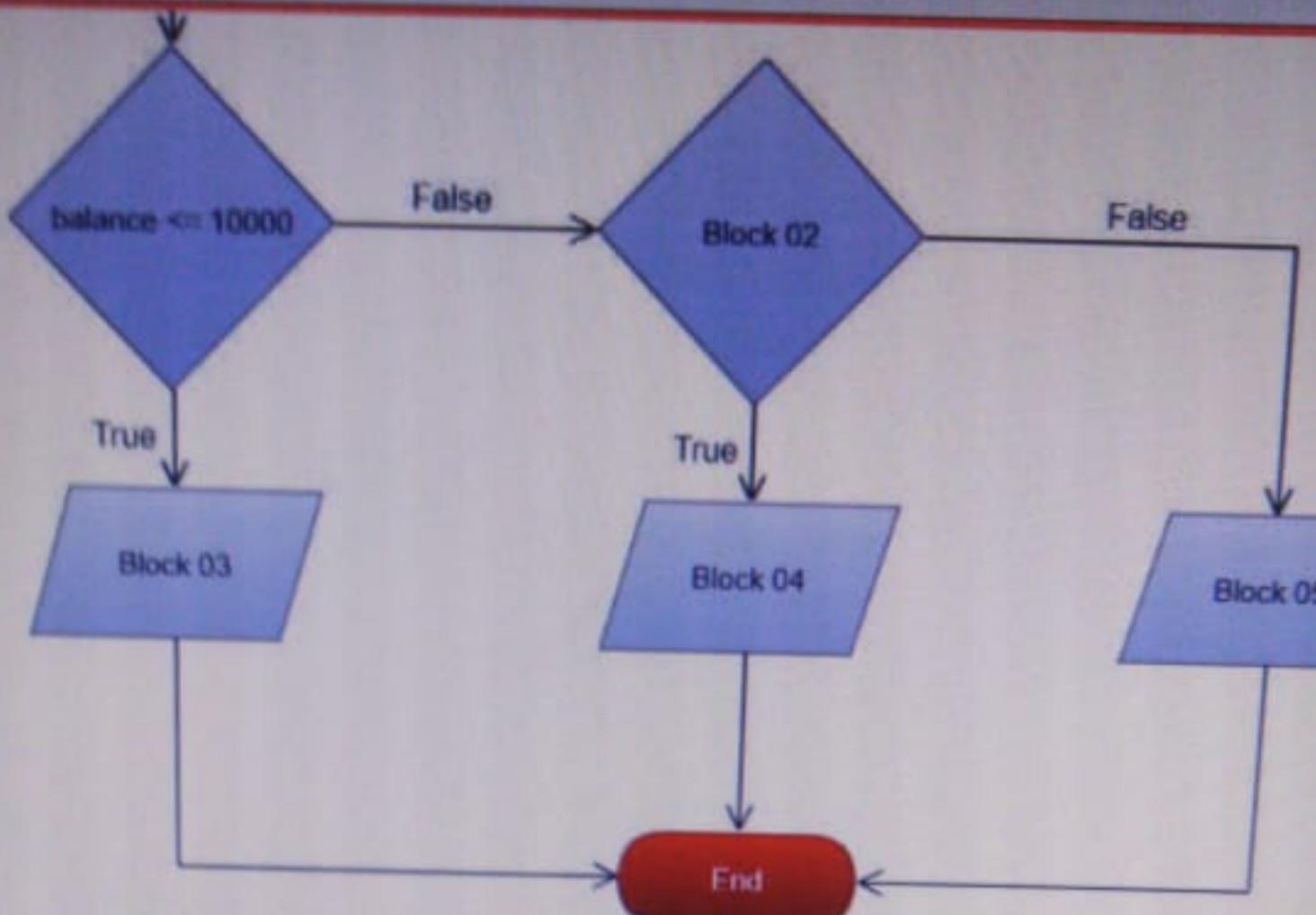
d out of

g question

When an assertion statement fails

Select one:

- 1. Display a message and abort the program
- 2. Abort the program
- 3. display a message
- 4. No action takes place
- 5. Continue with the next statement after assert



Block 01 -

Block 02-

Block 03-

Block 04-

Block 05-

A▼

B

I

≡

≡

🔗

✖

✉



Question 11

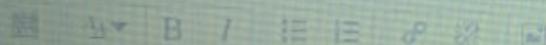
Not yet answered

Marked out of
5.00

Flag question

The following function returns subscription type(P – Platinum, G – Gold, S – Silver, B - Bronze) relevant to the paid amount.
Write two assert statements to test the `subscription()` function.

```
char subscription(float paidAmount)
{
    if(paidAmount >= 10000)
        return 'P';
    else if(paidAmount >= 5000)
        return 'G';
    else if(paidAmount >= 2500)
        return 'S';
    else
        return 'B';
}
```



≡ Quiz navigation



MCQ (2 MARKS EACH)

1	2	3	4
8	9	10	

ESSAY (5 MARKS EACH)

11	12	13	14
18	19	20	21

ESSAY (10 MARKS EACH)

25

FEEDBACK

26

Finish attempt...

Time left 1:38:38

13

answered

out of

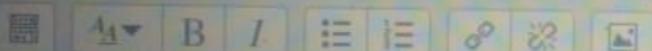
question

A company gives annual increments for their employees based on the following table.

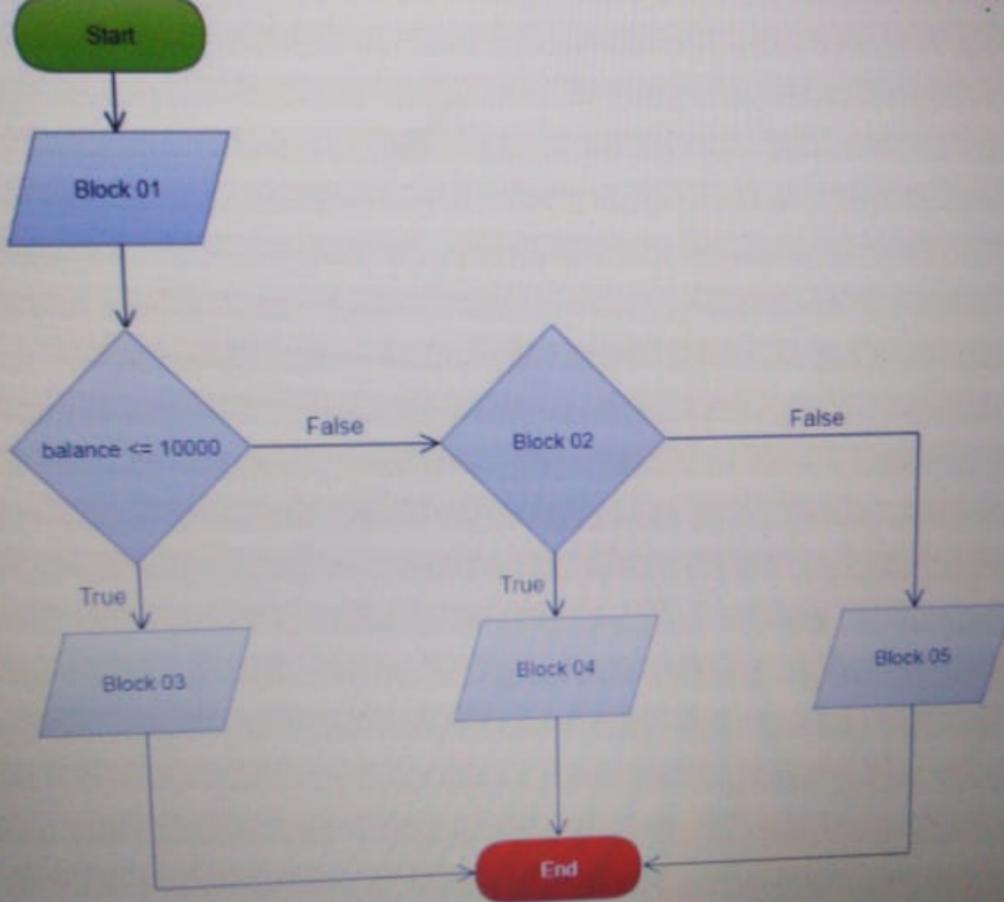
Employee Category	increment %
A	4
B	6
C	8

increment amount = increment percentage * salary

Implement a function called callIncrement() which calculates the increment when the salary and the employee category are passed as the parameters.



I





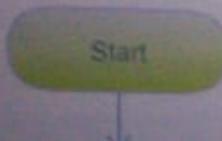
Sri Lanka Institute of Information Technology

1
swned
ut of
uestion

A bank is giving complements for their customers who open a new account on the new year day.
The following flowchart is drawn to decide the prize given for a customer.
Write the relevant instructions (Block 1 -5) in the given space.



Opening Balance	Prize
Less than 10000 or 10000	Umbrella
More than 10000 but less than 50000	Traveling bag
50000 or more	Rice cooker





A A ▾

B

I



Block 01 -

Block 02-

Block 03-

Block 04-

Block 05-

Question 11

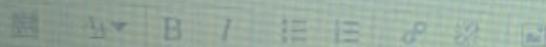
Not yet answered

Marked out of
5.00

Flag question

The following function returns subscription type(P – Platinum, G – Gold, S – Silver, B - Bronze) relevant to the paid amount.
Write two assert statements to test the `subscription()` function.

```
char subscription(float paidAmount)
{
    if(paidAmount >= 10000)
        return 'P';
    else if(paidAmount >= 5000)
        return 'G';
    else if(paidAmount >= 2500)
        return 'S';
    else
        return 'B';
}
```



≡ Quiz navigation



MCQ (2 MARKS EACH)

1	2	3	4
8	9	10	

ESSAY (5 MARKS EACH)

11	12	13	14
18	19	20	21

ESSAY (10 MARKS EACH)

25

FEEDBACK

26

Finish attempt...

Time left 1:38:38



A A ▼

B

I



Block 01 -

Block 02-

Block 03-

Block 04-

Block 05-

I



A bank is giving complements for their customers who open a new account on the new year day.

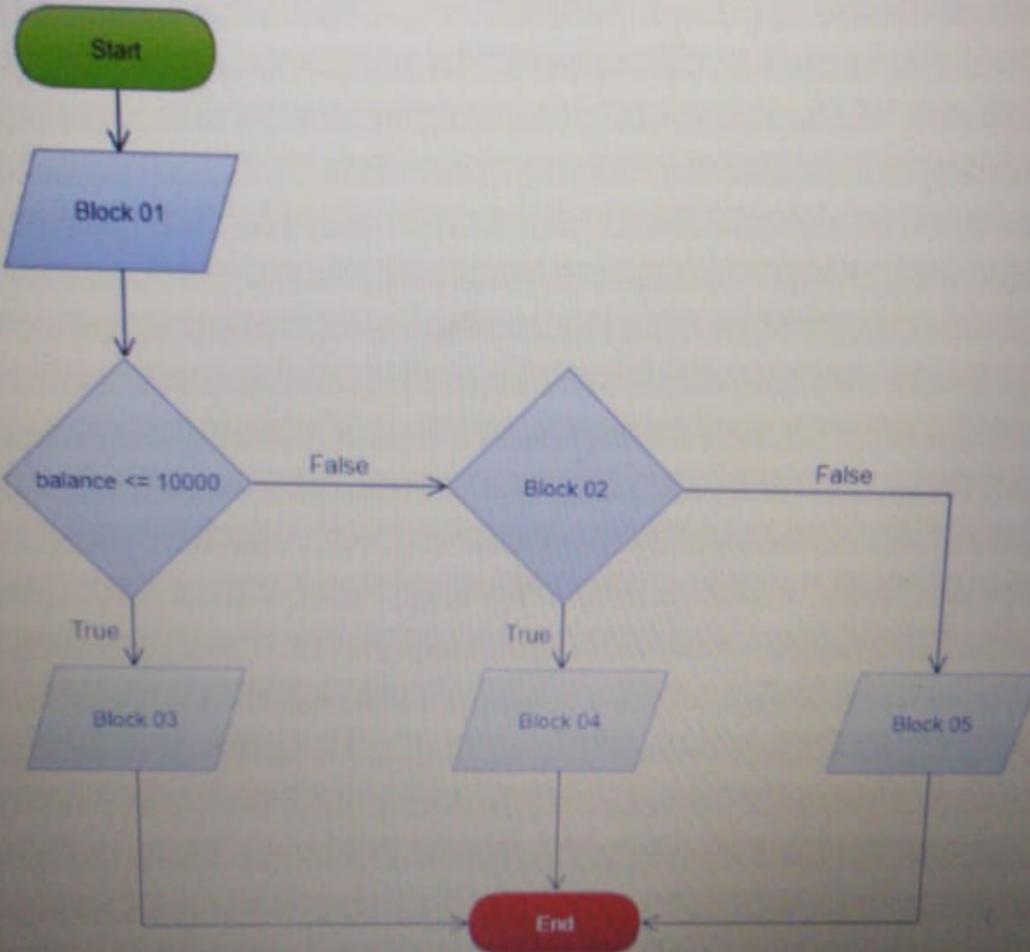
The following flowchart is drawn to decide the prize given for a customer.

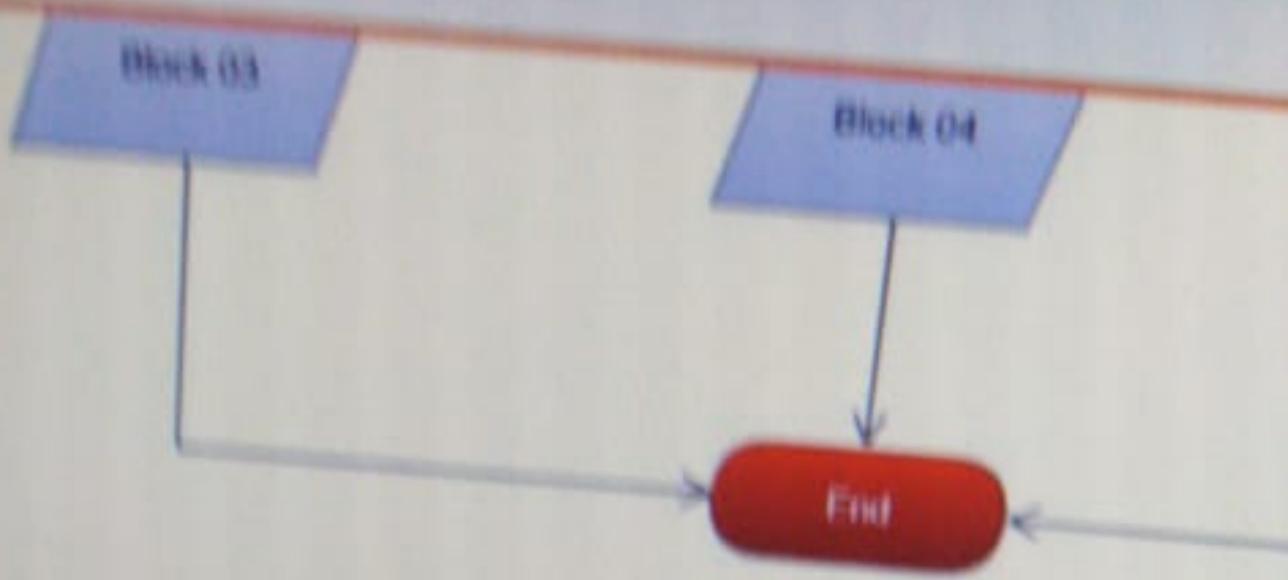
Write the relevant instructions (Block 1 -5) in the given space.



Opening Balance	Prize
Less than 10000 or 10000	Umbrella
More than 10000 but less than 50000	Traveling bag
50000 or more	Rice cooker



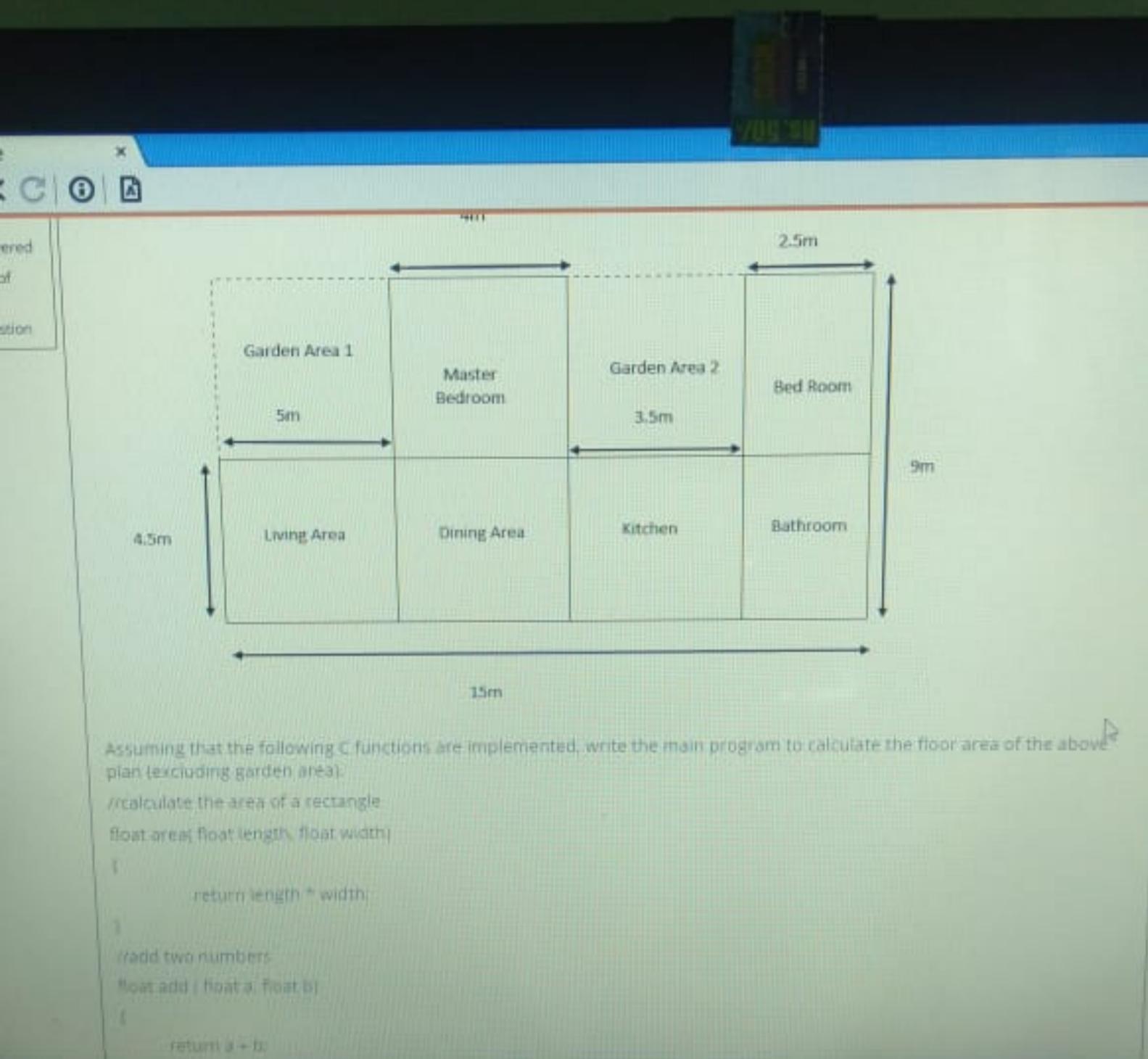




Block 01
Block 02.
Block 03.
Block 04.
Block 05.

I



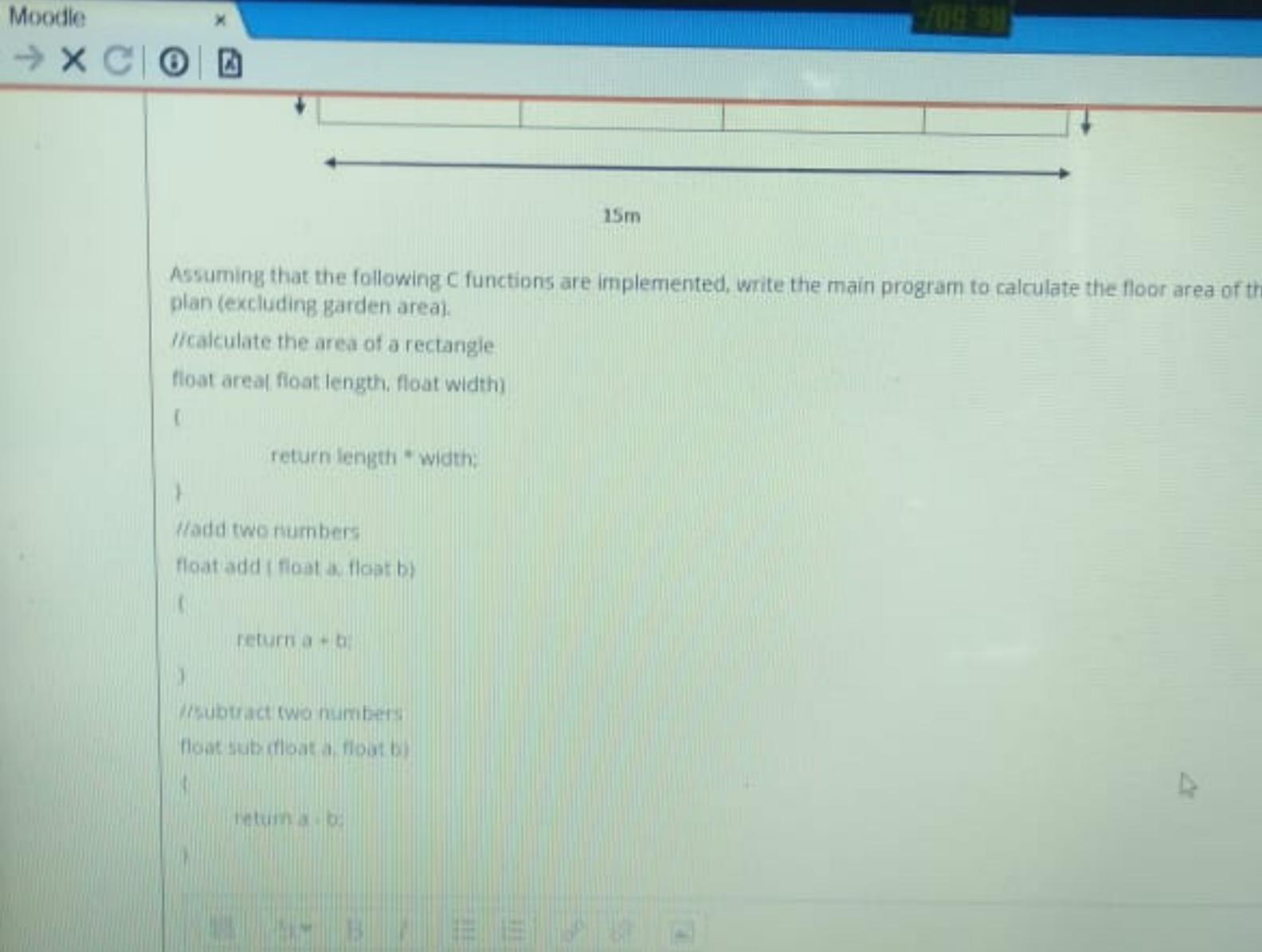


Assuming that the following C functions are implemented, write the main program to calculate the floor area of the above plan (excluding garden area).

```
//calculate the area of a rectangle
float area( float length, float width )
{
    return length * width;
}

//add two numbers
float add( float a, float b )
{
    return a + b;
}
```

W E R T Y U I O P
S D F G H J K



**Question 15**

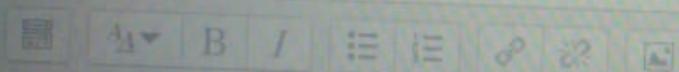
Not yet answered

Marked out of
5.00

Flag question

Write two assert statements to test the following function.

```
int calculatePoints(float purchaseAmount)
{
    if(purchaseAmount >= 5000)
        return 500;
    else if(purchaseAmount >= 3000)
        return 200;
    else if(purchaseAmount >= 1000)
        return 100;
    else
        return 25;
}
```



An online vegetable shop wants to show their prices to the customers. The details of the items are stored in "item.dat" file. Complete the following C code to display the item details.

A sample of item.dat file is given below(ignore the headings).

Item code	description	price(100g)
111	carrot	30.00
112	leeks	28.00
113	beans	32.00

```
# include <stdio.h>
int main(void)
{
    .....
    .....
    .....
    return 0;
```



Online Exams

Sri Lanka Institute of Information Technology

Question 16

Not yet answered

Marked out of
5.00

Flag question

Implement a function called calTax() in C to calculate the tax to be deducted from an employee by passing the salary as the parameter.

double calTax(double salary);

The tax is calculated as follows:

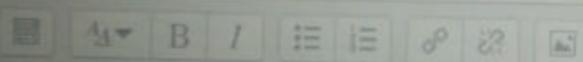
For salary below Rs.25000/-, no tax applies.

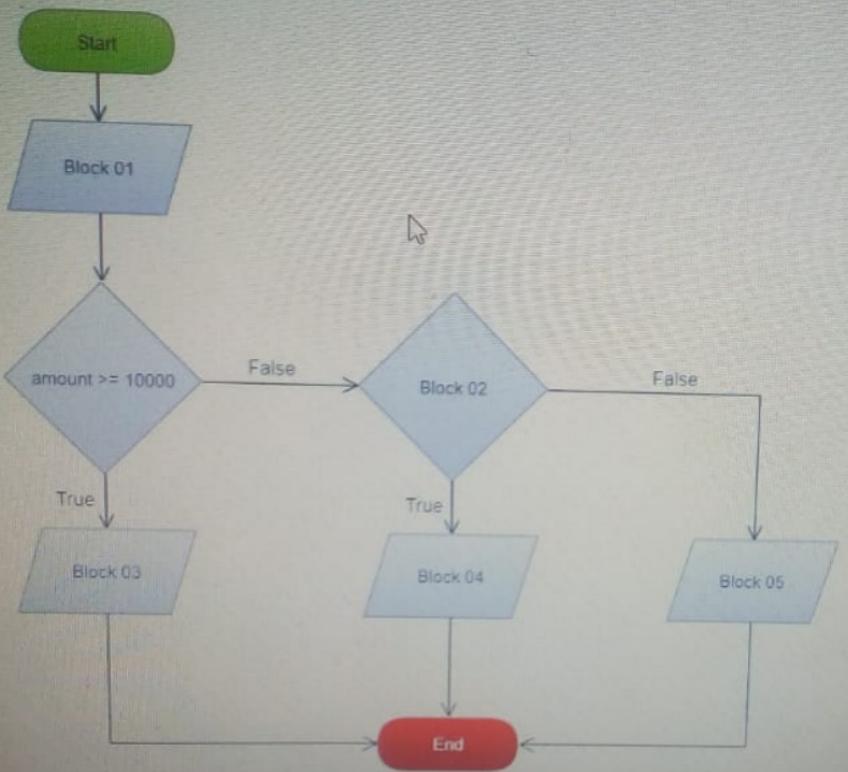
For salary of Rs.25000/- and above, 2% tax applies.

For salary above Rs.50000/-, 2% tax for the first Rs.25000/- and 0.5% tax for remaining amount applies

E.g.: If the salary is Rs.60000 /-, the tax is calculated as shown below:

$\text{tax} = (\text{2\% tax for first 25000 rupees}) + (\text{0.5\% tax for each remaining 35000 rupees})$





ESSAY (5)

11

12

ESSAY (10)

18

19

ESSAY (10)

25

FEEDBACK

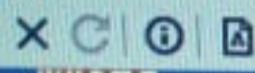
26

Finish attempt

Time left 0:59:33

odule

x



Sri Lanka Institute of Information Technology

13

answered

out of

question

Re-write the following code segment using if statements. Write the optimal code (use minimum number of if else statements)

```
switch( month){  
    case 1 : printf("31 days"); break;  
    case 2 : printf("28 days"); break;  
    case 3 : printf("31 days"); break;  
    case 4 : printf("30 days"); break;  
    case 5: printf("31 days"); break;  
    case 6: printf("30 days"); break;  
    case 7: printf("31 days"); break;  
    case 8: printf("31 days"); break;  
    case 9: printf("30 days"); break;  
    case 10: printf("31 days"); break;  
    case 11: printf("30 days"); break;  
    case 12: printf("31 days"); break;  
    default : printf(" invalid input");  
}
```



Consider the following table having two columns. First column has line numbers and the second has different programming statements and expressions. Write the line numbers of the relevant statements in correct order to obtain the following output.

No	Supportive components for program writing
1	(
2)
3	for(int j=0;j<=6;j++)
4	printf(" ");
5	for(int j=1;j<=6;j++)
6	printf("\n");
7	for(int j=0;j<=16;j++)
8	for(int j=1;j <= 6;j++)
9	for(int k=1,k<=6;k++)
10	for(int k=j,k<=6,k++)
11	if(j == k)
12	else

Output:

```
*****  
* * * * *  
*****  
* * * * *  
*****  
* * * * *  
*****
```

≡ Quiz nav

1

MCQ (2 MARKS EACH)

1 2 3
4 5 6
7 8 9 10

ESSAY (5 MARKS EACH)

11 12 13 14
15 16 17 18
19 20 21 22

ESSAY (10 MARKS EACH)

23

FINDINGS

26

Final attempt

Time left: 00:00



Assuming that the following C functions are implemented, write the main program to calculate the floor area of the above plan (excluding garden area).

```
//calculate the area of a rectangle
float area( float length, float width)
{
    return length * width;
}

//add two numbers
```

≡ Quiz navigation

1

MCQ (2 MARKS EACH)

1 2 3 4 5

8 9 10

ESSAY (5 MARKS EACH)

11 12 13 14 15 16

18 19 20 21 22 23

ESSAY (10 MARKS EACH)

25

FEEDBACK

26

Finish attempt...

Time left 0:50:12

Consider the following table having two columns. First column has line numbers and the second has different programming statements and expressions. Write the line numbers of the relevant statements in correct order to obtain the following output.

No	Supportive components for program writing
1	{
2	}
3	for(int j=0;j<=6;j++)
4	printf("*");
5	for(int j=1;j<=6;j++)
6	printf("\n");
7	for(int j=0;j<=16;j++)
8	for(int j=1;j == 6;j++)
9	for(int k=1;k<=6;k++)
10	for(int k=k;k<=6;k++)
11	if(j == k)
12	else

Output

```
*****  
*****  
*****  
*****  
*****  
*****  
*****
```

Sri Lanka Institute of Information Technology

Consider the following table having two columns. First column has line numbers and the second has different program statements and expressions. Write the line numbers of the relevant statements in correct order to obtain the following output.

No	Supportive components for program writing
1	{
2	}
3	for(int j=0;j<=6;j++)
4	printf("** ");
5	for(int j=1;j<=6;j++)
6	printf("\n");
7	for(int j=0;j<=16;j++);
8	for(int j=1;j == 6;j++)
9	for(int k=1;k<=6;k++)
10	for(int k=j;k<=6;k++)
11	if(j == k)
12	else

Output

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```



17

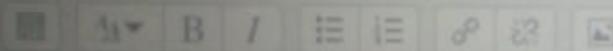
Answered

out of

question

Suppose that 10 students face an aptitude test at SLIIT and the marks are stored in an array called **marks**. You are asked to complete the following C program to find the number of pass and fail students. The pass mark is the average mark of the students.

```
#include <stdio.h>
int main(void)
{
    float marks[10] = { 75.00, 45.00, 61.00, 91.00, 55.00, 43.00, 78.00, 56.00, 95.00, 12.00};
    .....
    .....
    .....
    return 0;
}
```



≡ Quiz

1

MCQ (2)

1 2

8 9

ESSAY (5)

11 12

18 19

ESSAY (10)

25

The following function returns subscription type(P – Platinum, G – Gold, S – Silver, B - Bronze) relevant to the paid amount.
Write two assert statements to test the **subscription()** function.

```
char subscription(float paidAmount)
{
    if(paidAmount >= 10000)
        return 'P';
    else if(paidAmount >= 5000)
        return 'G';
    else if(paidAmount >= 2500)
        return 'S';
    else
        return 'B';
}
```



Question 15

Not yet answered

Marked out of
0

Flag question

As student has written the following program to input unit price of an item and its quantity from the keyboard and calculate the payment amount. However, the program does not generate the required output. Identify four bugs in the following program and re-write the program without errors.

```
#include <stdio.h>
int main()
{
    double price, amount;
    int quantity;
    printf("Enter unit price of the item & the quantity : ");
    scanf("%f, %d", &price, quantity);
    amount = price * quantity;
    printf("Amount = %.2f", quantity);
    return 0;
}
```

≡ Q

I

MCQ (2)

1

8 9

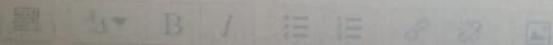
ESSAY (5)

11 12

18 19

ESSAY (10 M)

25

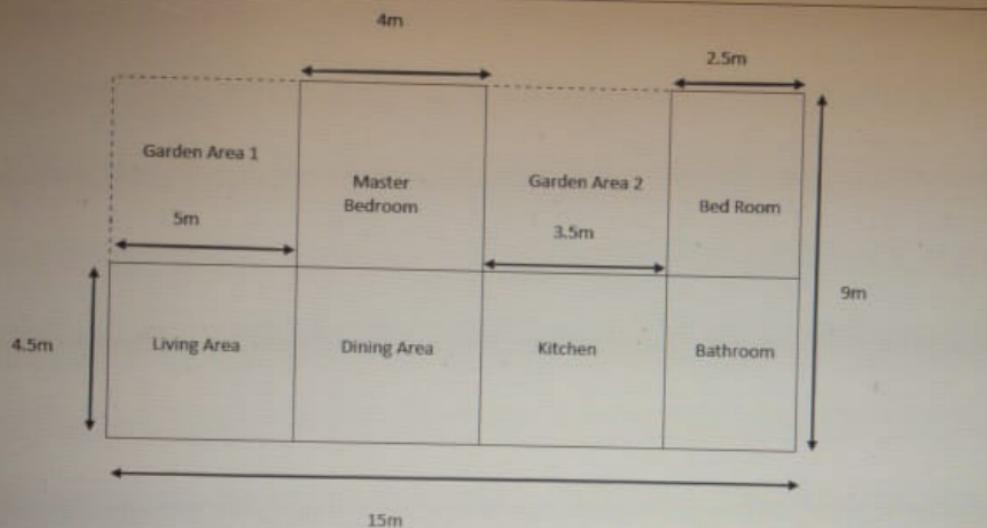


FEEDBACK

26

Question 18

Not yet answered

Marked out of
5.00 Flag question

Assuming that the following C functions are implemented, write the main program to calculate the floor area of the above plan (excluding garden area).

```
//calculate the area of a rectangle  
float area( float length, float width)
```

≡ Quiz navigation

1

MCQ (2 MARKS EACH)

- | | | | | | |
|---|---|---|----|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | | |

ESSAY (5 MARKS EACH)

- | | | | | | | |
|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |

ESSAY (10 MARKS EACH)

25

FEEDBACK

26



Sri Lanka Institute of Information Technology

Complete the following C code to reverse the data stored in an array. (use a loop)

starting array values

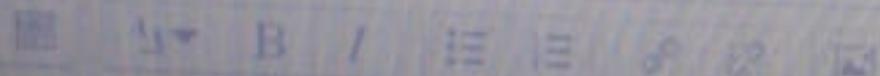
2	5	8	4	9	
---	---	---	---	---	--

after reverse array values

9	4	8	5	2	
---	---	---	---	---	--

```
# include <stdio.h>
int main(void)
{
    int num[5] = {2, 5, 8, 4, 9};

    .....
    .....
    .....
    return 0;
}
```



← →

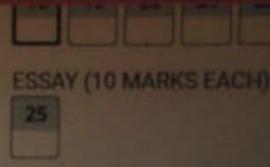
15m

Assuming that the following C functions are implemented, write the main program to calculate the floor area of the above plan (excluding garden area).

```
//calculate the area of a rectangle
float area( float length, float width)
{
    return length * width;
}

//add two numbers
float add ( float a, float b)
{
    return a + b;
}

//subtract two numbers
float sub (float a, float b)
{
    return a - b;
}
```



ESSAY (10 MARKS EACH)

25

FEEDBACK

26

Finish attempt ...

Time left 0:35:04



Question 19

Not yet answered

Marked out of
5.00 Reg question

Complete the following C program to solve the given expression. Use Standard C math library function.

$$Z = \sqrt{(x + y)^2 + (x - y)^2}$$

```
#include <stdio.h>
# include <math.h>
int main()
{
    int x = 3;
    int y = 2;
    float z;

    _____
    _____
    return 0;
}
```

Quiz n

1

MCQ (2 MA)

1 2

3 4

ESSAY (5 M)

11 12

18 19

ESSAY (10 M)

25



n 17

answered
out of
question

An online vegetable shop wants to show their prices to the customers. The details of the items are stored in "item.dat" file. Complete the following C code to display the item details.

A sample of item.dat file is given below(ignore the headings).

item code	description	price(100g)
111	carrot	30.00
112	leeks	28.00
113	beans	32.00

```
# include <stdio.h>
```

```
int main(void)
```

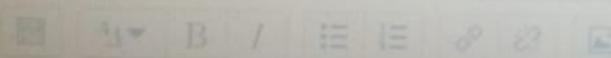
```
{
```

```
.....  
.....  
.....
```

```
return 0;
```

```
}
```

I



M
1
8
ESS
11
18
ESSA
25
FEEDER
26

**Question 20**

Not yet answered

Marked out of
5.00

Flag question

A restaurant provides facility for their customers to check the price of the food items using an online menu. The menu details (item code , description and price) are stored in a text file called "menu.dat". Complete the following C code to display the menu on the screen.

A sample of menu.dat file is given below (ignore the headings)

item code	description	price
S1	Prawns	675.00
S2	Fish	850.00
S3	Chicken	575.00

```
# include <stdio.h>
```

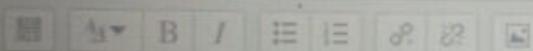
```
int main(void)
```

```
{
```

```
.....  
.....  
.....
```

```
return 0;
```

```
}
```



Quiz navig

I

MCQ (2 MARKS)

1 2 3

8 9 10

ESSAY (5 MARKS)

11 12 13

18 19 20

ESSAY (10 MARKS)

25

FEEDBACK

26

**Question 21**

Not yet answered

Marked out of
5.00 Flag question

A 2D array called sales is used to store the sales of 5 products for 3 sales people within a given week. Each sales person is given a target of 20000 per week. Complete the following C code to display the sales persons who achieved the target.

e.g:

20000.00	10000.00	4000.00	6200.00	12000.00
50000.00	2000.00	1200.00	3000.00	1500.00
2400.00	7000.00	4800.00	1100.00	1100.00

output : 1

```
# include <stdio.h>
int main(void)
{
    float sales[3][5] = {{20000.00, 10000.00, 4000.00, 6200.00, 12000.00},
                         {50000.00, 2000.00, 1200.00, 3000.00, 1500.00},
                         {2400.00, 7000.00, 4800.00, 1100.00, 1100.00}};
```

return 0;

**Quiz navigation**

MCQ | 2 MARKS

1 2 3
8 9 10

ESSAY | 5 MARKS

11 12 13
18 19 20

ESSAY | 10 MARKS



FEEDBACK



Final attempt

Time left 0:24:15



Assuming that the following C functions are implemented, write the main program to calculate the floor area of the above plan (excluding garden areas).

```
//calculate the area of a rectangle  
float area( float length, float width)  
{  
    return length * width;
```

**Question 21**

Not yet answered

Marked out of
5.00

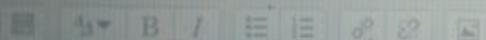
Flag question

A 2D array called **sales** is used to store the sales of 5 products for 3 sales people within a given week. Each sales person is given a target of 20000 per week. Complete the following C code to display the sales persons who achieved the target.
e.g:

20000.00	10000.00	4000.00	6200.00	12000.00
5000.00	2000.00	1200.00	3000.00	1500.00
2400.00	7000.00	4800.00	1100.00	1100.00

output : 1

```
# include <stdio.h>
int main(void)
{
    float sales[3][5] = {{20000.00, 10000.00, 4000.00, 6200.00, 12000.00},
                         {5000.00, 2000.00, 1200.00, 3000.00, 1500.00},
                         {2400.00, 7000.00, 4800.00, 1100.00, 1100.00}};
    .....
    .....
    .....
    return 0;
}
```

**Quiz navigation**

i

MCQ (2 MARKS EACH)

1	2	3	4	5	6
---	---	---	---	---	---

8	9	10
---	---	----

ESSAY (5 MARKS EACH)

11	12	13	14	15	16
----	----	----	----	----	----

18	19	20	21	22	23
----	----	----	----	----	----

ESSAY (10 MARKS EACH)

25					
----	--	--	--	--	--

FEEDBACK

26					
----	--	--	--	--	--

Finish attempt...

Time left 0:23:57

Assuming that the following C functions are implemented, write the main program to calculate the floor area of the above plan (excluding garden areas).

```
//calculate the area of a rectangle
float area( float length, float width)
{
    return length * width;
}

//add two numbers
float add ( float a, float b)
{
    return a + b;
}

//subtract two numbers
float sub (float a, float b)
{
    return a - b;
}
```