GE23131-Programming Using C-2024

Quiz navigation

| 1 | 2 | 3 | 4 | 5 |

Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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Question 1

Correct

Marked out of 1.00

⚑ Flag question

The if statement tells a program to execute a certain section of code only if a particular test evaluates to true. if (*expression*) {*statement*}.

Below is a sample code which uses a if statement:

```
int distinction_marks = 75;
if (marks > distinction_marks)
{
        printf("User secured distinction.\n");
}
```
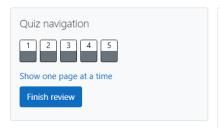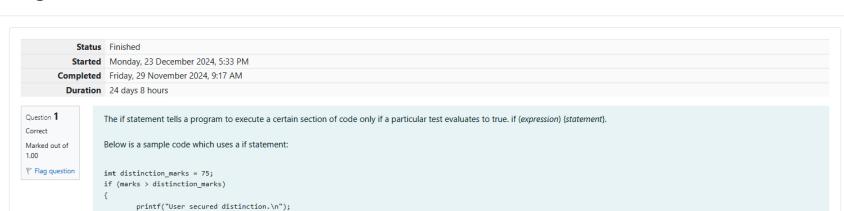
An if statement will execute its block only when condition evaluates to 1 (**true**).

We can also conditionally execute another block when the condition evaluates to 0 (**false**) using the else construct. The else construct must be attached to an if, hence together they are referred to as if-else construct.

The if-else statement provides two different paths of execution depending on the result of the condition.

Below is the general syntax for the if-else statement :

```
if (expression)
{
        statement-1;
}
else
{
        statement-2;
}
```

Below is an example with code:

```
int distinction_marks = 75;
if (marks > distinction_marks)
{
        printf("User secured distinction.\n");
}
else
{
        printf("User did not secure distinction.\n");
}
```

Fill in the missing code in the below program to check whether the user secured distinction or not.

For example:

Input	Result
76	User secured distinction.
21	User did not secure distinction.

Answer: (penalty regime: 0 %)

Reset answer

```c
1  #include <stdio.h>
2
3  int main()
4  {
5      int marks, distinction_marks = 75;
6      scanf("%d", &marks);
7      if(marks>distinction_marks)
8      { // Write the if condition
9          printf("User secured distinction.\n");
10     }
11     else
12     { // Write else part
13         printf("User did not secure distinction.\n");
14     }
15     return 0;
16 }
```

	Input	Expected	Got	
✓	76	User secured distinction.	User secured distinction.	✓
✓	21	User did not secure distinction.	User did not secure distinction.	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 1.00

⚑ Flag question

Write code which uses an if-else statement to check whether a given account balance is greater or lesser than the minimum balance.

Use the if-else statement and print "Balance is low" if the balance is less than **1000**, otherwise print "Sufficient balance".

For example, if the user gives the **input** as 1500:

```
1500
```

then the program should **print** the result as:

```
Sufficient balance
```

Similarly, if the input is given as 700 then print

```
Balance is low
```

[**Hint:** Make sure to read the input as a float value.]

For example:

Input	Result
1225	Sufficient balance
999.55	Balance is low

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    float b;
    scanf("%f",&b);
    if (b>1000)
    {
        printf("Sufficient balance");
    }
    else
    {
        printf("Balance is low");
    }
    return 0;
}
```

	Input	Expected	Got	
✓	1225	Sufficient balance	Sufficient balance	✓
✓	999.55	Balance is low	Balance is low	✓

Passed all tests! ✓

Fill in the missing code in the below program to check whether the student secured first class or not.

Note-1: Read **6** subjects marks, find total and percentage, then print the student secured first class or not.

Note-2: If percentage is greater than or equal to **60** then print student secured first class and the percentage.

For example:

Input	Result
45 67 34 57 68 81	Student did not secure a first class with 58.67%
67 68 65 56 59 69	Student secured a first class with 64.00%

Answer: (penalty regime: 0 %)

Reset answer

```c
#include <stdio.h>

int main()
{
    int maths_marks, computers_marks, physics_marks, chemistry_marks, english_marks, spanish_marks;
    float percentage,total;
    scanf("%d%d%d%d%d%d",&maths_marks,&computers_marks,&physics_marks,&chemistry_marks,&english_marks,&spanish_marks);
    total=maths_marks+computers_marks+physics_marks+chemistry_marks+english_marks+spanish_marks;
    percentage=total/6;
    if(percentage>=60)
    { // Write the condition
        printf("Student secured a first class with %5.2f%%\n", percentage);
```

```
13        }
14        else
15        { // Write the else part
16            printf("Student did not secure a first class with %5.2f%%\n", percentage);
17        }
18        return 0;
19  }
```

	Input	Expected	Got	
✓	45 67 34 57 68 81	Student did not secure a first class with 58.67%	Student did not secure a first class with 58.67%	✓
✓	67 68 65 56 59 69	Student secured a first class with 64.00%	Student secured a first class with 64.00%	✓

Passed all tests! ✓

Write a program which uses an if-else statement to verify and print if the given number is an odd or an even.

For example, if the user gives the **input** as 10:

```
10
```

then the program should **print** the result as:

```
The given number 10 is an even number
```

If the input is given as 35, then the program should print the result as :

```
The given number 35 is an odd number
```

For example:

Input	Result
35	The given number 35 is an odd number
10	The given number 10 is an even number

Answer: (penalty regime: 0 %)

Reset answer

```
1   #include <stdio.h>
2
3   int main()
4   {
5       int number;
6       scanf("%d",&number);
7       if(number%2==1)
8       { // write if condition to check the given number is even or odd
9         // print even or odd
10        printf("The given number %d is an odd number",number);
11      }
12      else
13      { // print even or odd
14        printf("The given number %d is an even number",number);
15      }
16      return 0;
17  }
```

	Input	Expected	Got	
✓	35	The given number 35 is an odd number	The given number 35 is an odd number	✓
✓	10	The given number 10 is an even number	The given number 10 is an even number	✓

Passed all tests! ✓

Write a program which uses an if-else statement to verify if the given character is an alphabet or not.

For example, if the user gives the **input** as W:

W

then the program should **print** the result as:

Given character W is an alphabet

If the input us given as 7, then print the result as:

Given character 7 is not an alphabet

[**Hint:** The ASCII values of alphabets '**A**' to '**Z**' are 65 to 90 and '**a**' to '**z**' are 97 to 122.]

For example:

Input	Result
W	Given character W is an alphabet
7	Given character 7 is not an alphabet

Answer: (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main(){
3      char ch;
4      scanf("%c", &ch);
5      if((ch>= 'a' && ch<='z')||(ch>= 'A' && ch<='z'))
6      {
7      printf("Given character %c is an alphabet\n",ch);
8      }
9      else{
10         printf("Given character %c is not an alphabet\n",ch);
11         }
12         return 0;
13  }
```

	Input	Expected	Got	
✓	W	Given character W is an alphabet	Given character W is an alphabet	✓
✓	7	Given character 7 is not an alphabet	Given character 7 is not an alphabet	✓

Passed all tests! ✓

Finish review