

# Home quiz#1

Individual Assignment

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p20-0471

**Write a program using overloaded functions such that;**

**Task 1: //return the difference between two number (difference must be positive)**

```
#include<iostream>
```

```
#include<string.h>
```

```
using namespace std;  
int difference(int num1, int num2)  
{  
    return abs(num2-num1);  
}
```

```
int main()  
{  
    cout<<" Non negetive difference  
is :"<<difference(6,3);  
}
```

**output:-**

```
Non negetive difference is :3[1] + Done  
} 0<"/tmp/Microsoft-MIEngine-In-lypsqfd1.ijf" 1>,  
janny@stoic-programmer:~/Documents/c plus plus$
```

## Task 2:

Write a recursive function to convert a binary number input into decimal number

int convert(int a)

source code:-

```
#include<iostream>
```

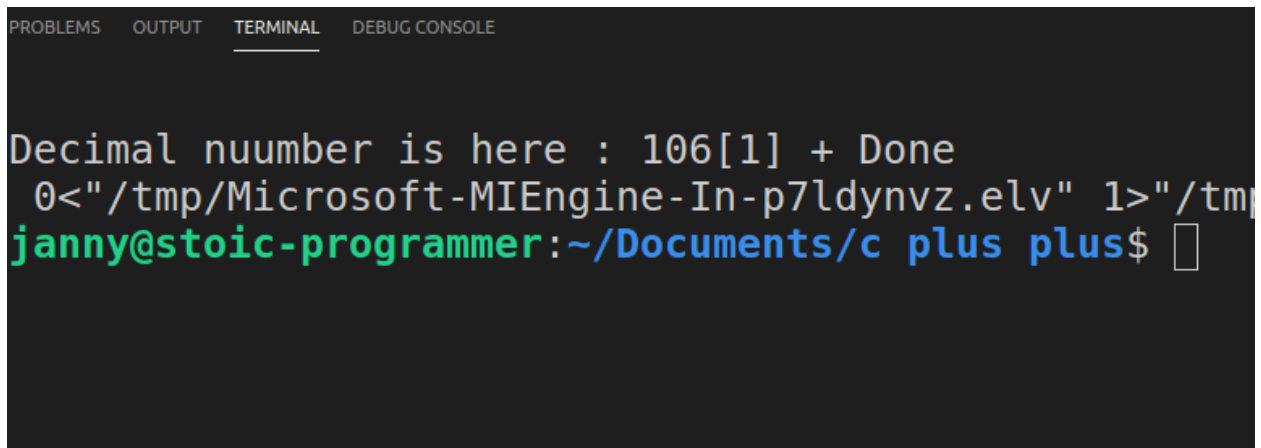
```
#include <cmath>
using namespace std;
int convert(int num);
int main()
```

```
{
    int num;
    cout<<"Decimal number is here :
    "<<convert(1101010);
    return 0;
}
```

```
int convert(int num)
{
    int decimalNumber = 0, i = 0, remainder;
    while (num!=0)
    {
```

```
remainder = num%10;
num/= 10;
decimalNumber += remainder*pow(2,i);
++i;
}
return decimalNumber;
}
```

**output:-**



The screenshot shows a code editor with a dark theme. At the top, there are four tabs: 'PROBLEMS', 'OUTPUT', 'TERMINAL', and 'DEBUG CONSOLE'. The 'TERMINAL' tab is active. The terminal output displays the result of a program execution: 'Decimal number is here : 106[1] + Done'. Below this, there is a command prompt line showing the user 'janny@stoic-programmer' in a directory '~' with a file named 'c plus plus'. The prompt ends with a dollar sign '\$' and a cursor.

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

Decimal number is here : 106[1] + Done
0<"/tmp/Microsoft-MIEngine-In-p7ldynvz.elv" 1>"/tmp/
janny@stoic-programmer:~/Documents/c plus plus$
```