Home quiz#1

Individual Assignment

Najam Ali Abass

p20-0471

Write a program using overloaded functions such that;

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

```cpp
#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:-

```cpp
#include<iostream>
#include <cmath>
using namespace std;
int convert(int num);
int main()
{
int num;
cout<<"Decimal nuumber is here : "<<convert(1101010);
return 0;
}
int convert(int num)
{
int decimalNumber = 0, i = 0, remainder;
while (num!=0)
{
```
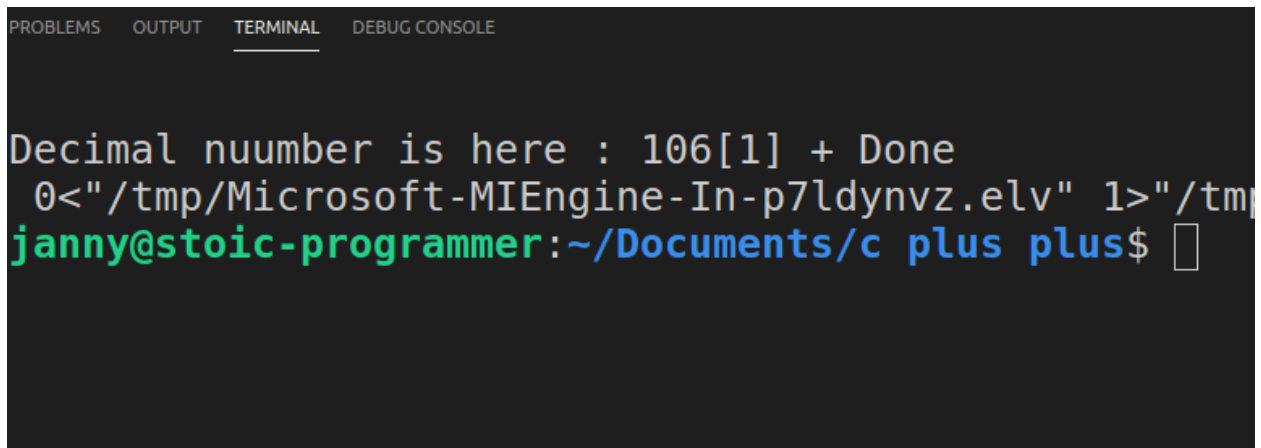
```
    remainder = num%10;
    num/= 10;
    decimalNumber += remainder*pow(2,i);
    ++i;
    }
    return decimalNumber;
    }
```

output:-

PROBLEMS   OUTPUT   TERMINAL   DEBUG CONSOLE

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