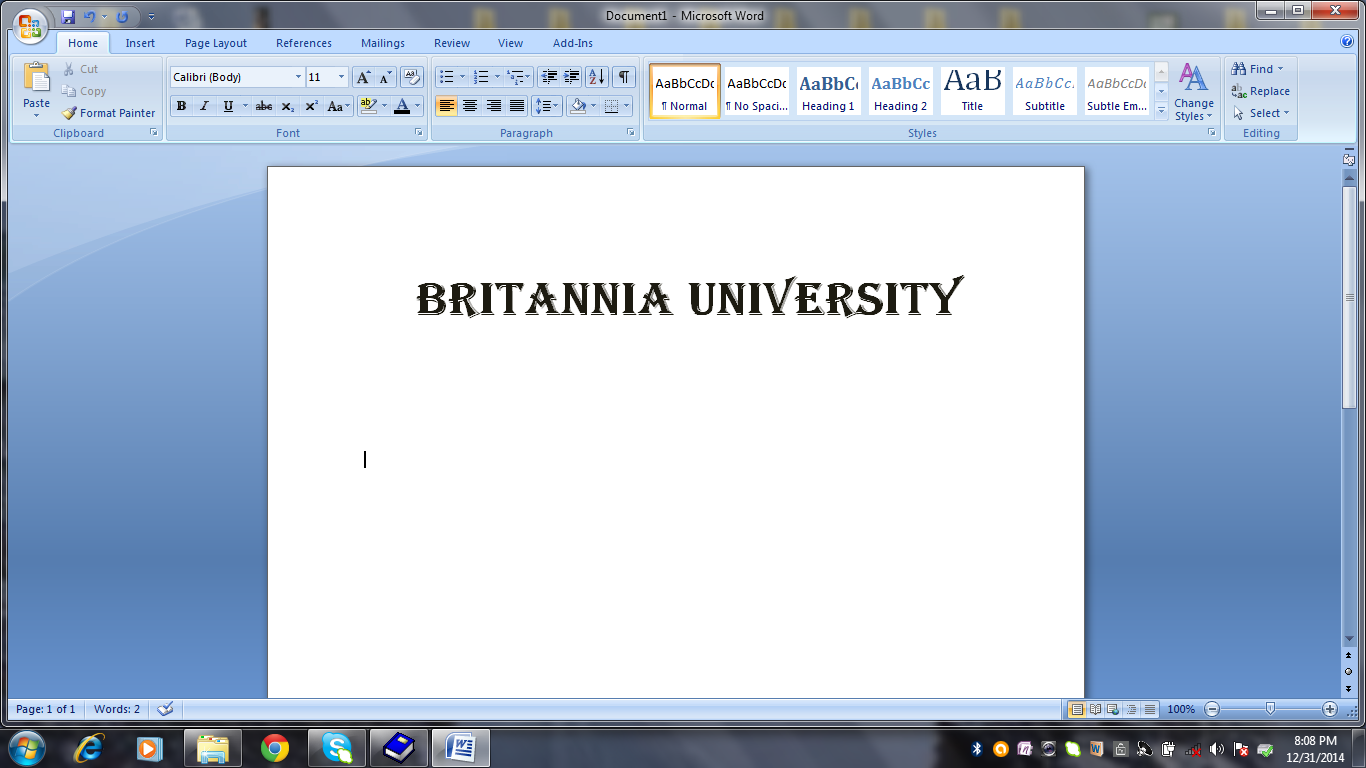


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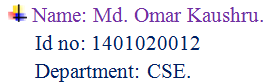
**Course title:** Numerical Methods.

* **Lab report on:** A c program which implements bisection method to find the root of a specific function.



Date of Submission: 17-02-2016

Submitted by:

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* A c program which implements bisection method to find the root of a specific function.

#include <stdio.h>

#include <math.h>

double fu(double e,double f, double g, double h, double i, double j, double k)

{

return f\*e\*e\*e\*e\*e+g\*e\*e\*e\*e+h\*e\*e\*e+i\*e\*e+j\*e+k;

}

int main()

{

double x, y =.000001,z,a,b,l,m,n,o,p,q;

printf("Enter the value for l m n o p q: ");

scanf("%lf %lf %lf %lf %lf %lf",&l,&m,&n,&o,&p,&q);

printf("Enter two real number for a & b: ");

scanf("%lf %lf", &a,&b);

do

{

x=(a+b)/2;

z=fu(x,l, m,n,o,p,q);

if(z<0)

b=x;

else

a=x;

}while(z>y);

printf("Root for equation \n%.2lf\*x^5 + %.2lf\*x^4 + %.2lf\*x^3 + %.2lf\*x^2 + %.2lf\*x + %.2lf is: %.2lf",l,m,n,o,p,q,x);

return 0;

}

Sample Input/Output:

