



Graphic Era
HILL UNIVERSITY

Established by an Act of the State Legislature of Uttarakhand (Adhiniyam Sankhya 12 of 2011)

Term Work

On

Data Base Management Systems

(TCS 503)

Submitted to:

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Assistant Professor
GEHU, D. Dun

Submitted by:

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University Roll. No.: 2018550
Class Roll No./Section: 39/A

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GRAPHIC ERA HILL UNIVERSITY, DEHRADUN



Graphic Era

HILL UNIVERSITY

Established by an Act of the State Legislature of Uttarakhand (Adhiniyam Sankhya 12 of 2011)

DEPARTMENT OF CSE STUDENT LAB REPORT SHEET

Name of StudentMob.No.....

Address Permanent.....

Father's NameOccupation Mob. No.....

Mother's Name OccupationMob.No.....

Section Branch Semester Class Roll NoGrade A BC

Local Address Email Marks 5 31

Photograph
Passport Size

S.No.	Practical	D.O.P.	Date of Submission	Grade (Viva)	Grade (Report File)	Total Marks (out of 10)	Student's Signature	Teacher's Signature
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

S.No.	Practical	D.O.P.	Date of Submission	Grade (Viva)	Grade (Report File)	Total Marks (out of 10)	Student's Signature	Teacher's Signature
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

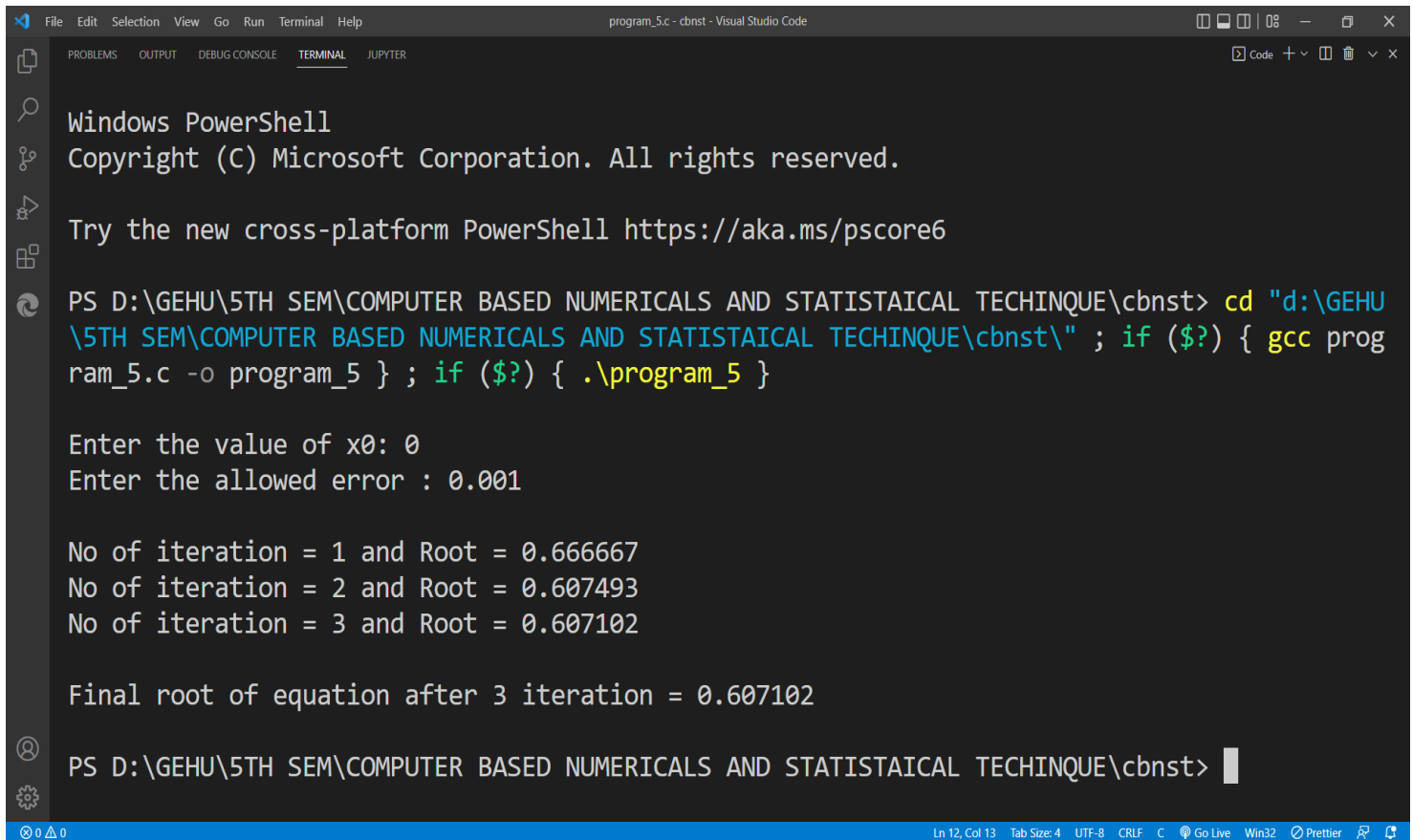
Total No of Practical allotted

Total No of Practical completed

Percentage Attendance of Practical

Output

Equation: $-(3 * x) - \cos(x) - 1$



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

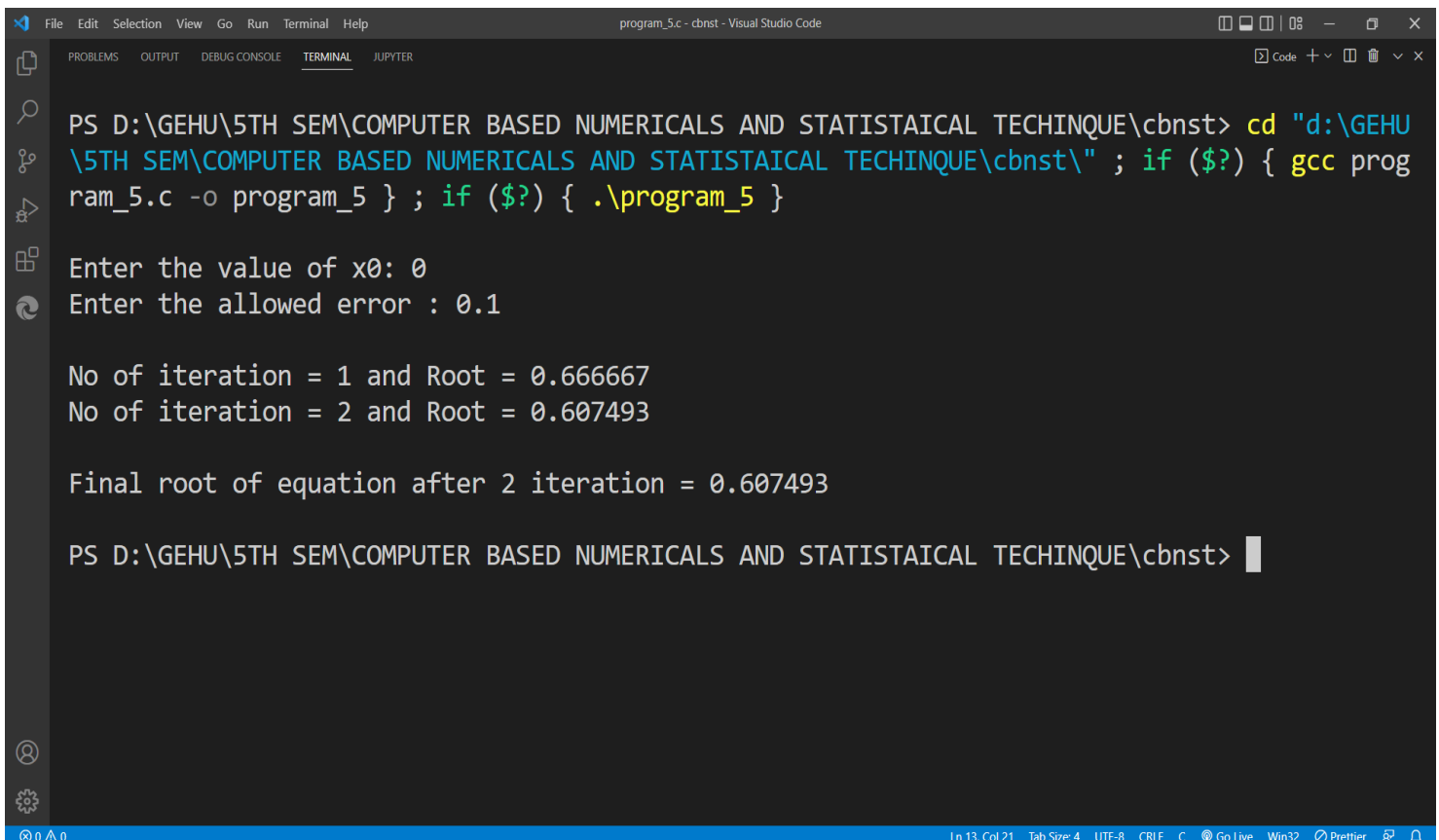
PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbtnst> cd "d:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbtnst\" ; if ($?) { gcc program_5.c -o program_5 } ; if ($?) { .\program_5 }

Enter the value of x0: 0
Enter the allowed error : 0.001

No of iteration = 1 and Root = 0.666667
No of iteration = 2 and Root = 0.607493
No of iteration = 3 and Root = 0.607102

Final root of equation after 3 iteration = 0.607102

PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbtnst>
```



```
PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbtnst> cd "d:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbtnst\" ; if ($?) { gcc program_5.c -o program_5 } ; if ($?) { .\program_5 }

Enter the value of x0: 0
Enter the allowed error : 0.1

No of iteration = 1 and Root = 0.666667
No of iteration = 2 and Root = 0.607493

Final root of equation after 2 iteration = 0.607493

PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbtnst>
```

Output

Equation: $-(x * \exp(x)) - \cos(x)$

```
File Edit Selection View Go Run Terminal Help program_6.c - cbnst - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst> cd "d:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst\" ; if ($?) { gcc program_6.c -o program_6 } ; if ($?) { .\program_6 }

Enter the value of x0 : 0
Enter the value of x1 : 1

Enter the allowed error : 0.001

No of iteration = 1 and Root = 0.314665
No of iteration = 2 and Root = 0.446728
No of iteration = 3 and Root = 0.531706
No of iteration = 4 and Root = 0.516904
No of iteration = 5 and Root = 0.517747

Final root after 5 iteration = 0.517747

PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst>
```

```
File Edit Selection View Go Run Terminal Help program_6.c - cbnst - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst> cd "d:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst\" ; if ($?) { gcc program_6.c -o program_6 } ; if ($?) { .\program_6 }

Enter the value of x0 : 0
Enter the value of x1 : 1

Enter the allowed error : 0.1

No of iteration = 1 and Root = 0.314665
No of iteration = 2 and Root = 0.446728
No of iteration = 3 and Root = 0.531706

Final root after 3 iteration = 0.531706

PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst>
```

OUTPUT

```
PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst> cd "d:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst\" ; if ($?) { gcc program_7.c -o program_7 } ; if ($?) { .\program_7 }

Enter the number of equations : 3

Enter the co-efficients of the equations
a[0][0] = 1
a[0][1] = 1
a[0][2] = 1
b[1] = 2
a[1][0] = 1
a[1][1] = 2
a[1][2] = 3
b[2] = 4
a[2][0] = 1
a[2][1] = 2
a[2][2] = 4
b[3] = 7
```

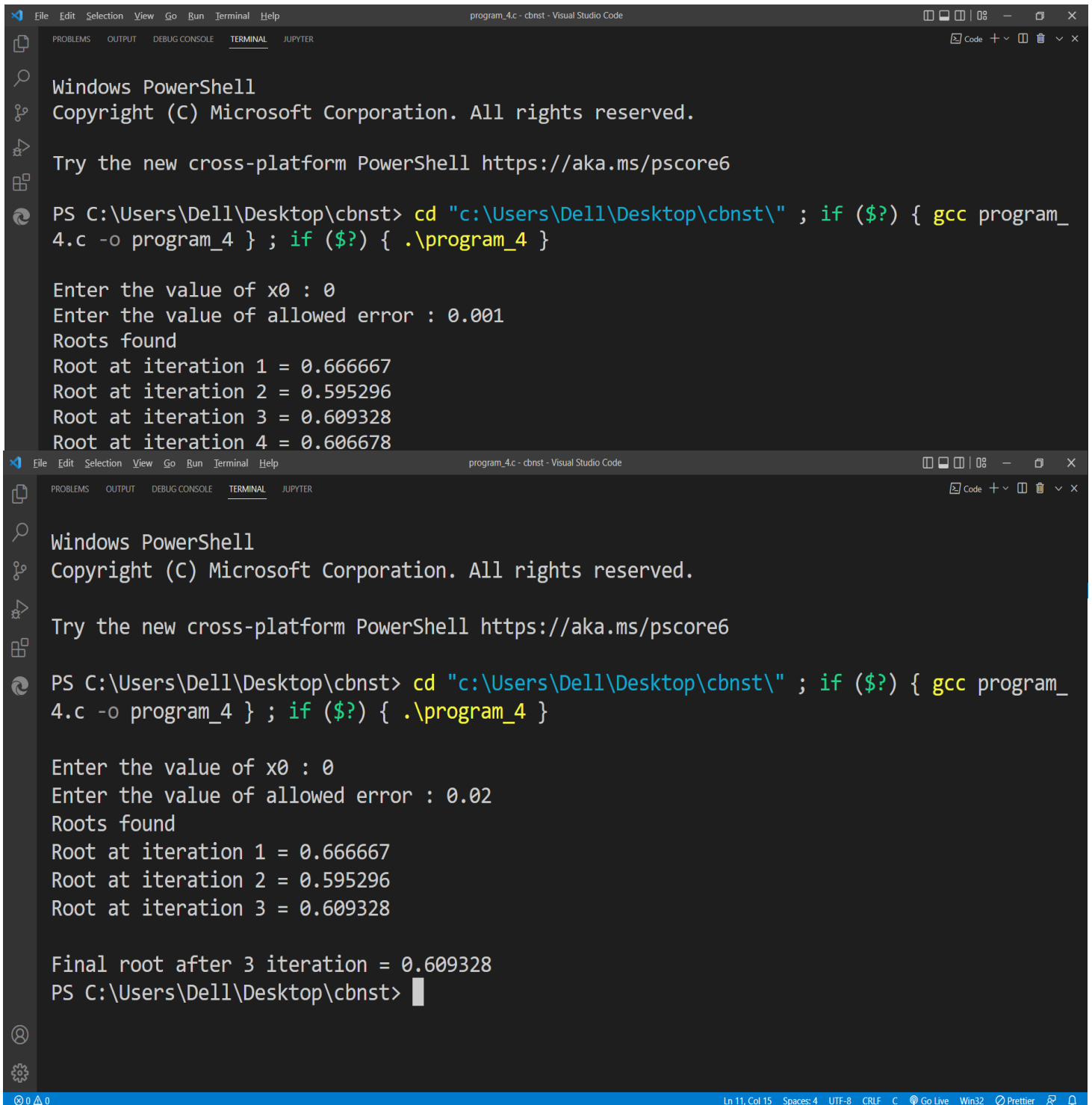
```
a[1][0] = 1
a[1][1] = 2
a[1][2] = 3
b[2] = 4
a[2][0] = 1
a[2][1] = 2
a[2][2] = 4
b[3] = 7

Upper triangular Matrix :
1.0    1.0    1.0    2.0
0.0    1.0    2.0    2.0
0.0    0.0    1.0    3.0

The value and roots are :
value[0] = 3.0
value[1] = -4.0
value[2] = 3.0

PS D:\GEHU\5TH SEM\COMPUTER BASED NUMERICALS AND STATISTAICAL TECHINQUE\cbnst>
```

OUTPUT



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Dell\Desktop\cbnst> cd "c:\Users\Dell\Desktop\cbnst\" ; if ($?) { gcc program_4.c -o program_4 } ; if ($?) { .\program_4 }

Enter the value of x0 : 0
Enter the value of allowed error : 0.001
Roots found
Root at iteration 1 = 0.666667
Root at iteration 2 = 0.595296
Root at iteration 3 = 0.609328
Root at iteration 4 = 0.606678

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Dell\Desktop\cbnst> cd "c:\Users\Dell\Desktop\cbnst\" ; if ($?) { gcc program_4.c -o program_4 } ; if ($?) { .\program_4 }

Enter the value of x0 : 0
Enter the value of allowed error : 0.02
Roots found
Root at iteration 1 = 0.666667
Root at iteration 2 = 0.595296
Root at iteration 3 = 0.609328

Final root after 3 iteration = 0.609328
PS C:\Users\Dell\Desktop\cbnst>
```

Equation:- $\cos(x) - (3 * x) + 1$