```
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> cd "c:\Users\Anjali Rana\Or { gcc prog4.c -o prog4 } ; if ($?) { .\prog4 } } for Equation: cos(x) -3*x +1 Enter the value of x0 - 0 Input is satisfying the condition Enter the allowed Error - 0.0001
1 iteration and the value of x is - 0.666667
2 iteration and the value of x is - 0.595296
3 iteration and the value of x is - 0.609328
4 iteration and the value of x is - 0.606678
5 iteration and the value of x is - 0.607086
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem>
```

```
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> cd "c:\Users\Anjali { gcc prog4.c -o prog4 } ; if ($?) { .\prog4 } For Equation: 2*x - log(x)- 7
Enter the value of x0 - 0.45
Input is satisfying the condition
Enter the allowed Error - 0.0001
1 iteration and the value of x is - 3.326606
2 iteration and the value of x is - 3.761001
3 iteration and the value of x is - 3.787652
4 iteration and the value of x is - 3.789273
5 iteration and the value of x is - 3.789273
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> ■
```

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWin

PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> cd "c:\Users\Anjali R
{ gcc prog3.c -o prog3 } ; if ($?) { .\prog3 }

For equation: 3x + sin(x)- e^x
0 1

Root lies between a and b
0.0001
1 iteration 0.470990 is 0.265159
2 iteration 0.372277 is 0.029534
3 iteration 0.361598 is 0.002941
4 iteration 0.360537 is 0.000289
5 iteration 0.360433 is 0.000028

PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem>

### C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem>
### PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem>
```

```
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSW
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> cd "c:\Users\Anjali
{ gcc prog3.c -o prog3 } ; if ($?) { .\prog3 }
For equation: x^3 - 5x +1
0 1
Root lies between a and b
0.0001
1 iteration 0.250000 is -0.234375
2 iteration 0.202532 is -0.004351
3 iteration 0.201654 is -0.000071
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem>

| | |
```