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|  | **DEPARTMENT OF FIRST YEAR ENGINEERING** |

**Experiment No. 8**

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| Semester | F.E. Semester II – First Year Engineering |
| Subject | C Programming (FEL204) |
| Subject Professor In-charge | Prof. Sanjeev Dwivedi Sir |
| Assisting Teachers | Prof. Sneha Annappanavar |

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| Student Name | Deep Salunkhe |
| Roll Number | 21102A0014 |

**Title:**

**Program Code:**

#include<stdio.h>

void main()

{

    int i, n;

    float x, sum, t;

    printf(" Enter the value for x : ");

    scanf("%f",&x);

    printf(" Enter the value for n : ");

    scanf("%d",&n);

    x=x\*3.14159/180;

    t=x;

    sum=x;

    for(i=1;i<=n;i++)

    {

        t=(t\*(-1)\*x\*x)/(2\*i\*(2\*i+1));

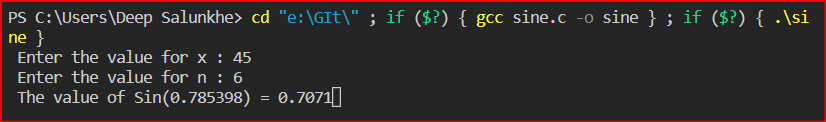
        sum=sum+t;

    }

    printf(" The value of Sin(%f) = %.4f",x,sum);

}

**Output:**

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