



Experiment No.-1.1

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Branch: CSE-AML Section/Group:

Semester: Date of performance: 22/08/2022

Subject: Python for machine learning Subject code:21CSH238

- **1. Aim/Overview of the practical:** Python Program to Compute a Polynomial Equation given that the Coefficients of the Polynomial are stored in a List.
- 2. Task to be done: We have to create a program in which coefficients of the polynomial are stored in a list.
- 3. Apparatus:

Visual Studio code

4. Theme/Interests definition:

```
#WAP to Compute a Polynomial Equation given that the Coefficients of the Polynomial are
stored in a List
print("Your name")
import math
print('enter the coefficient in the form ax^3 + bx^2 + cx + d')
list=[]
for i in range(0,4):
    a=int(input('Enter the coefficient:'))
    list.append(a)
x=int(input('Enter the value of x:'))
sum=0
b=3
for i in range(0,3):
```







```
while(b>0):
    sum=sum+(list[i]*math.pow(x,b))
    break
b=b-1
sum=sum+list[3]
print("the value of the polynomial is :",sum)
import math
```

5. Steps for experiment/practical:

- 1.Import the math library.
- 2.Make an empty list in which you stored these coefficients.
- 3.Enter the coefficient of the polynomial (ax^3+bx^2+cx+d).
- 4.By using the append command store these coefficients.
- 5.Enter the value of x.
- 6.Now, create two more variables (sum=0, b=3(here b is the power of the x)).
- 7. Store the value of polynomial in sum.
- 8. Now, print the polynomial's value.

6. Observations/Discussions:

```
enter the coefficient in the form ax^3 + bx^2 + cx + d
Enter the coefficient:2
Enter the coefficient:3
Enter the coefficient:7
Enter the coefficient:1
Enter the value of x:2
the value of the polynomial is : 97.0
```







7. Result/Output/Writing Summary:

In this program we took values of coefficients and variable as input from user and gave value of polynomial as output.

8. Graphs (If Any): Image/Soft copy of graph paper to be attached here: None

9. Learning outcomes (What I have learnt):

Here, I learnt:

- 1. Basic python commands.
- 2. For and while loop in python.
- 3. Some uses of math library in python.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
No.			
1.			
2.			
3.			

