

AMC ENGINEERING COLLEGE NAAC A+ ACCREDITED | NBA ACCREDITED

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ASSIGNMENT I

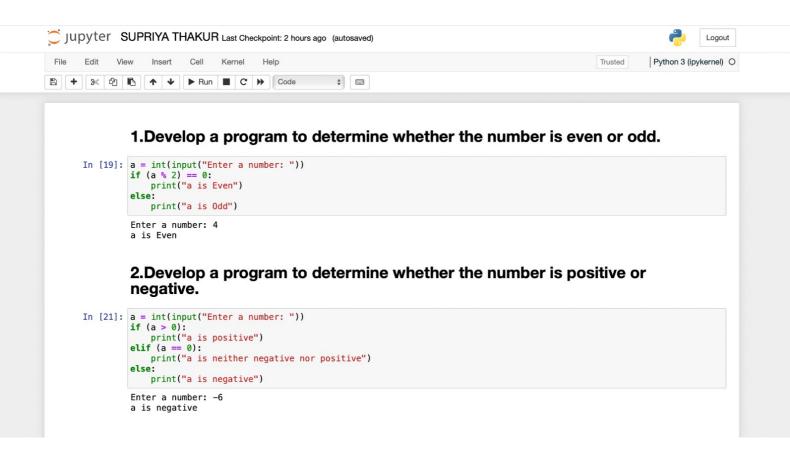
INTRODUCTION TO PYTHON PROGRAMMING

SUBMITTED TO:

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SUBMITTED BY:

SUPRIYA THAKUR CSE 'D' SECTION Ist SEMESTER ROLL NO. 3





3.Develop a program to find whether the given number is prime number or not.

```
In [27]: num = int(input("Enter a number: "))

if num == 1:
    print(num, "is not a prime number")

elif num > 1:
    for i in range(2,num):
        if (num % i) == 0:
            print(num, "is not a prime number")
            print(i, "times", num//i, "is", num)
            break

else:
        print(num, "is a prime number")

else:
    print(num, "is not a prime number")

Enter a number: 66
66 is not a prime number
2 times 33 is 66
```

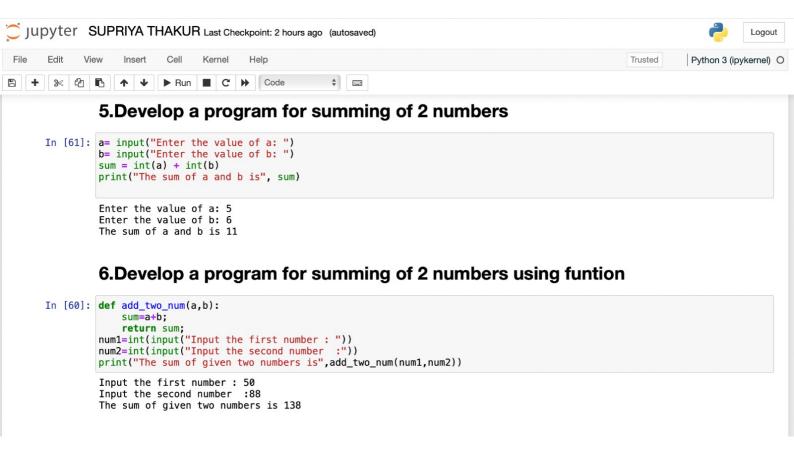
4. Develop a program to check if a string is Palindrome or Not Pallindrome

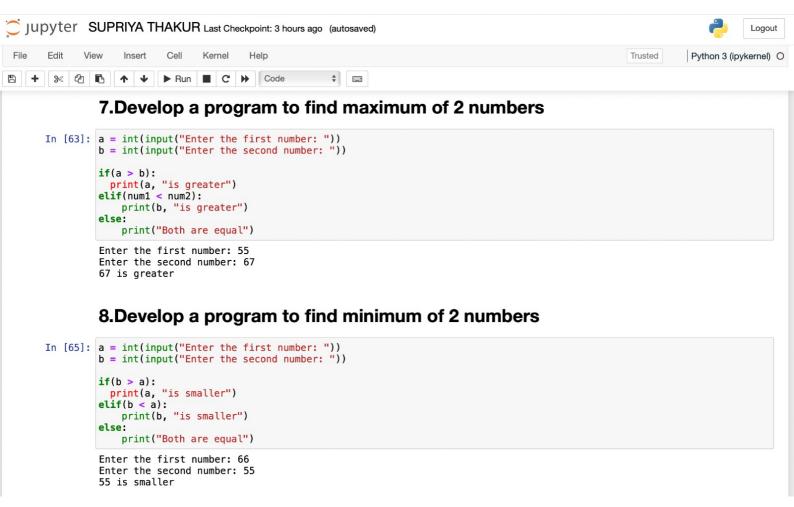
```
In [33]: def isPalindrome(s):
    return s == s[::-1]

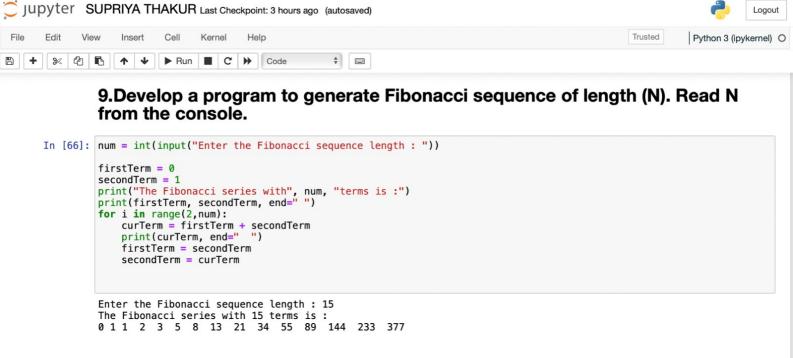
s = "malayalam"
    ans = isPalindrome(s)

if ans:
    print("Yes")
    else:
    print("No")

Yes
```







Logout

10. Write a function to calculate factorial of a number. Develop a program to compute binomial coefficient.

```
In [74]:
           def fact(num):
              if num == 0 :
                   return 1
              else:
                   return num * fact(num-1)
          n = int(input("Enter the value of N : "))
          r = int(input("Enter the value of R (R cannot be negative or greater than N): "))
print("Factorial of ",n ,"is : ",fact(n))
          nCr = fact(n)/(fact(r)*fact(n-r))
          print(n, 'C', r, " = ", nCr)
          Enter the value of N:7
          Enter the value of R (R cannot be negative or greater than N): 6
          Factorial of 7 is: 5040
          7 C 6 = 7.0
```

