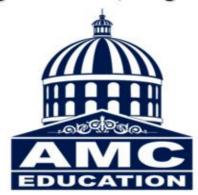
AMC ENGINEERING COLLEGE

Bannerghatta Road, Bengaluru-560083



Assignment - 1

Introduction To Python Programming

Submitted To:- Submitted By:-

Prof.Rashmi Pruthi Nikhil Hoskatta

CSE Department CSE ,D Sec.

Roll No :- 'D'22

Even Or Odd

```
In [1]: print('Nikhil')
        num=int(input("enter a number:"))
        if num%2==0:
            print("num is even")
        else:
            print("num is odd")
        Nikhil
        enter a number:4
                             Positive Or Negetive
        num is even
In [2]: print("Nikhil")
        num=int(input("enter an integer:"))
        if num>0:
            print("num is positive")
        elif num<0:
            print("num is odd")
        else:
            print("num is zero")
        Nikhil
        enter an integer:-6
        num is odd
```

Prime Number

```
In [28]: print("Nikhil")
         num=int(input("enter a number:"))
         count=0
         for i in range(1,num+1):
             if(num%i==0):
                 count +=1
         if(count==2):
             print("the given number is prime")
         else:
             print("the given number is not prime")
         Nikhil
         enter a number:5
         the given number is prime
                                    Pallindrome
 In [3]: print("Nikhil")
         num=int(input("enter a number:"))
         num str = str(num)
         if num_str == num_str[::-1]:
             print("num is pallindrome")
         else:
             print("num is not a pallindrome")
         Nikhil
         enter a number:212
         num is pallindrome
```

Sum Of Two Numbers

```
In [4]: print("Nikhil")
         a=int(input("enter a num:"))
         b=int(input("enter a num:"))
         sum=a+b
         print(sum)
         Nikhil
         enter a num:5
         enter a num:7
         12
                 Sum Of Two Numbers Using Function
In [13]: print("Nikhil")
         def calculate_sum(num1,num2):
            return num1+num2
         num1=int(input("enter a number:"))
         num2=int(input("enter a number:"))
         sum=num1+num2
         print("sum:",sum)
         Nikhil
         enter a number:4
         enter a number:5
         sum: 9
```

Maximum Of Two Numbers

```
In [18]:
        print("Nikhil")
        num1=3
        num2=4
        result=max(num1,num2)
        print("maximum:",result)
        Nikhil
        maximum: 4
                       Minimum Of Two Numbers
        print("Nikhil")
In [19]:
        num1=5
        num2=2
        result=min(num1,num2)
        print("minimum:",result)
        Nikhil
        minimum: 2
```

Fibonacci Series

```
In [22]: print("Nikhil")
         num=int(input("enter the fibonacci sequence length:"))
         a=0
         b=1
         print("the fibonacci series of sequence", num, "is;")
         print(a,b,end="")
         for i in range(2,num):
             c=a+b
             print(c,end="")
             a=b
             b=c
         Nikhil
         enter the fibonacci sequence length:5
         the fibonacci series of sequence 5 is;
         0 1123
                              Factorial Of Number
In [26]:
         print("Nikhil")
         n=int(input("enter a number:"))
         f=1
         if(n<0):
             print("not possible:")
         elif(n==0):
             print("the factorial=1")
         else:
             for i in range(1,n+1):
                 f=f*1
         print("factorial is:",f)
         Nikhil
         enter a number:10
```

factorial is: 1

Reverse Number In String

```
In [27]: print("NIKHIL".center(20,'*'))
         num_str="12345"
         reversed_str=num_str[::-1]
         print("reversed number:",reversed_str)
         *******NIKHIL*****
         reversed number: 54321
                                Swap Of Two Numbers
In [8]: print("Nikhil")
         a=int(input("a="))
         b=int(input("b="))
         a,b=b,a
         print("after swapping:")
         print("a:",a)
         print("b:",b)
         Nikhil
         a=4
         b=6
         after swapping:
         a: 6
         b: 4
```

G.C.D Of Two Numbers

```
In [32]: import math
         num1=int(input("enter a number:"))
         num2=int(input("enter a number:"))
         result=math.gcd(num1,num2)
         print("result:",result)
         enter a number:8
         enter a number:4
         result: 4
                       Guess Number Using Random
 In [3]: print("Nikhil")
         import random
         number=random.randint(1,10)
         guess=0
         while guess!=number:
             guess=int(input("guess a number"))
             if guess<number:
                 print("guess a higher number")
             elif guess>number:
                print("guess a lower number")
             else:
                 print("you guessed the correctly", number)
         Nikhil
         guess a number4
         guess a higher number
         guess a number5
         guess a higher number
         guess a number7
         guess a higher number
         guess a number8
```

you guessed the correctly 8