Sushmitha N python assignment1.ipynb

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```
[1]  #Even or odd
     print("Sushmitha N")
     n=int(input("Enter the number: "))
     if n%2==0:
       print(n,"is even")
     else:
       print(n, "is odd")
```

```
Sushmitha N
Enter the number: 52
52 is even
```

Sushmitha N python assignment1.ipynb

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```
[3]  #Positive or negative
     print("Sushmitha N")
     n=int(input("Enter the number: "))
     if n>0:
       print(n,"is positive")
     elif n<0:
       print(n,"is negative")
     else:
       print(n,"is zero")
```

```
Sushmitha N
Enter the number: -7
-7 is negative
```

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```
#Prime number
print("Sushmitha N")
num = int(input("enter the number: "))
if num > 1:
  for i in range(2,num):
    if (num % i) == 0:
        print(num,"is not a prime number")
        break
  else:
      print(num,"is a prime number")
else:
  print("num is not a prime number")
```

```
Sushmitha N
enter the number: 23
23 is a prime number
```

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```
#pallindrome
print("Sushmitha N")
num = int(input("Enter a number: "))
temp = num
rev = 0

while num > 0:
  dig = num % 10
  rev = rev * 10 + dig
  num = num // 10

if temp ==rev:
    print("The number is pallindrome!")
else:
    print("Not a pallindrome!")
```

```
Sushmitha N
Enter a number: 121
The number is pallindrome!
```

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```
#Sum of 2 number
print("Sushmitha N")
a=int(input("Enter value of a: "))
b=int(input("Enter value of b: "))
p=a+b
print("the sum of",a,"and",b,"is: ",p)
```

```
Sushmitha N
Enter value of a: 10
Enter value of b: 20
the sum of 10 and 20 is:  30
```

Sushmitha N python assignment1.ipynb

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```
#sum of 2 number using function
print("Sushmitha N")
def sum(a,b):
  c=a+b
  return c
a=int(input("Enter value of a: "))
b=int(input("Enter value of b: "))
print("the sum of",a,"and",b,"is: ",sum(a,b))
```

```
Sushmitha N
Enter value of a: 47
Enter value of b: 2
the sum of 47 and 2 is:  49
```

Sushmitha N python assignment1.ipynb

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7s

```
[23] #max of 2 numbers
     print("Sushmitha N")
     a=int(input("Enter the value of a: "))
     b=int(input("Enter the value of b: "))

     print("The maximum value is",(a if a>=b else b))
```

```
Sushmitha N
Enter the value of a: 12
Enter the value of b: 32
The maximum value is 32
```

Sushmitha N python assignment1.ipynb

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6s

```
#min of 2 numbers
print("Sushmitha N")

x=int(input("Enter the value of x: "))
y=int(input("Enter the value of y: "))

print("The minimum value is",(x if x<=y else x))
```

```
Sushmitha N
Enter the value of x: 42
Enter the value of y: 65
The minimum value is 42
```

Sushmitha N python assignment1.ipynb

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6s

```
[28] #fibonacci
     print("Sushmitha N")
     num=int(input("Enter the Fibonacci sequence length: "))

     firstTerm=0
     secondTerm=1
     print("The Fibonacci series with",num,"terms is: ")
     print(firstTerm,secondTerm,end=" ")
     for i in range(2,num):
       curTerm=firstTerm+secondTerm
       print(curTerm,end=" ")
       firstTerm=secondTerm
       secondTerm=curTerm
```

```
Sushmitha N
Enter the Fibonacci sequence length: 15
The Fibonacci series with 15 terms is:
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377
```

Sushmitha N python assignment1.ipynb

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```
#factorial
print("Sushmitha N")
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)
```

```
Sushmitha N
Enter the value of N: 5
Enter the value of R(R cannot be negative or greater than N): 2
Factorial of  5 is:  120
5 c  =  10.0
```

Sushmitha N python assignment1.ipynb

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```
[40] #gcd of 2 numbers
     print("Sushmitha N")
     def gcd(a,b):
       while b:
         a, b = b, a % b
       return a

     a=int(input("Enter the value of a: "))
     b=int(input("Enter the value of b: "))
     print("The gcd of",a,"and",b,"is: ",gcd(a,b))
```

```
Sushmitha N
Enter the value of a: 26
Enter the value of b: 43
The gcd of 26 and 43 is:  1
```

Sushmitha N python assignment1.ipynb

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```
[42] #swap 2 numbers
     print("Sushmitha N")
     a=20
     b=50

     temp=a
     a=b
     b=temp

     print("Value of a: ",a)
     print("Value of b: ",b)
```

```
Sushmitha N
Value of a:  50
Value of b:  20
```

Sushmitha N python assignment1.ipynb ☆

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[49] 8s
```
#reverse number in string
print("Sushmitha N")
n=int(input("Enter number: "))
rev=0
while(n>0):
    dig=n%10
    rev=rev*10+dig
    n=n//10
print("Reverse of the number is: ",rev)
```

```
Sushmitha N
Enter number: 1234567
Reverse of the number is:  7654321
```

[53] 10s
```
#guess number using random
print("Sushmitha N")
import random
n = random.randrange(1,10)
guess = int(input("Enter any number: "))
while n!= guess:
    if guess < n:
        print("Too low")
        guess = int(input("Enter number again: "))
    elif guess > n:
        print("Too high!")
        guess = int(input("Enter number again: "))
    else:
      break
print("you guessed it right!!")
```

```
Sushmitha N
Enter any number: 2
Too low
Enter number again: 5
Too low
Enter number again: 8
Too low
Enter number again: 9
you guessed it right!!
```