

Assignment on Loops

1)

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try:
    n=int(input("enter a range"))
    i=1
    s=0
    for i in range(i,n+1):
        s=s+i
    print("sum",s)
except:
    print("error..give numeric input")
```

2)

```
try:
    n=int(input("Enter a number"))
    c=0
    i=1
    while i<=n:
        if (n%i==0):
            c+=1
        i+=1
    if c==2:
        print("prime")
    else:
        print("not prime")
except:
    print("enter numeric input")
```

3)

```
try:
    for num in range(1,1001):
        sum=0
        temp=num
        c=0
        while temp>0:
            temp=temp//10
            c=c+1
        temp=num
        while temp>0:
            digit=temp%10
```

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        sum=sum+digit**c
        temp=temp//10
    if num==sum:
        print(num)
    else:
        break
except:
    print("try again")

```

4)

```

try:
    print("prime numbers from 1 to 1000")
    for n in range(1,1001):
        c=0
        i=1
        while i<=n:
            if (n%i==0):
                c+=1
            i+=1
        if c==2:
            print(n)
except:
    print("try again")

```

5)

```

try:
    print("fibonacci numbers from 1 to 1000:")
    a=0
    b=1
    print(a)
    print(b)
    for s in range(1,1001):
        s=a+b
        if s<1000:
            print(s)
            a=b
            b=s
        else:
            break
except:

```

```
print("try again")
```