

Qn1:-armstrong  
n=int(input("enter a number"))  
length=len(str(n))  
temp=n  
sum=0

```
while temp!=0:  
    digit=temp%10  
    sum+=digit**length  
    temp=temp//10
```

```
if sum==n:  
    print("yes its armstrong")  
else:  
    print("no its not")
```

Qn2:- biggest number in a digit

```
num = int(input("Enter a number: "))
```

```
lar = 0
```

```
while num > 0:  
    digit = num % 10  
    if digit > lar:  
        lar = digit  
    num //= 10
```

```
print("The largest digit is:", lar)
```

Qn3: perfect number

```
num = int(input("Enter a number: "))  
temp=num  
i = 1  
sum=0
```

```
print("Factors are:")  
while i < num:  
    if num % i == 0:  
        print(i)  
        sum=sum+i
```

```
    i += 1  
print(sum)  
if sum==temp:  
    print("perfect")  
else:  
    print("not perfect")
```

Qn4:- reverse a number

```
input_number=int(input("enter your input"))  
reverse=0
```

```
while input_number>0:
    digit=input_number%10
    reverse=reverse*10+digit
    input_number=input_number//10
print(reverse)
```