**Q. Write an Algorithm and Python Program for checking the Armstrong Numbers.**

Algorithm

* Start
* Use variable **Number**, **Remainder**, **Quotient**, **Sum**
* Read **Number**
* **Quotient** = **Number**
* **Sum** = 0
* Repeat

**Remainder** = **Quotient** % 10

**Sum** = **Sum** + (**Remainder**\*\*3)

**Quotient** //= 10

Until **Quotient** > 0

* Stop

Python Program

Number = int(input(**"Enter the number to check whether it is Armstrong or not : "**))  
Quotient = Number  
Sum = 0  
while Quotient > 0:  
 Remainder = Quotient % 10  
 Sum = Sum + (Remainder\*\*3)  
 Quotient //= 10  
if (Sum==Number):  
 print(Number, **"is an Armstrong Number"**)  
else:  
 print(Number, **"is not an Armstrong Number"**)

**Q. Write an Algorithm and Python Program for printing the Fibonacci Series.**

Algorithm

* Start
* Use variable **Number**, **Temp\_Store1**, **Temp\_Store2**, **Sum**
* Read **Number**
* **Sum** = 1, **Temp\_Store1** = 0, **Temp\_Store2** = 1
* Repeat

Print (**Sum**)

**Sum** = **Sum** + **Temp\_Store2**

**Temp\_Store1** = **Temp\_Store2**

**Temp\_Store2** = **Sum**

Until **Sum** <= **Number**

* Stop

Python Program

Number = int(input(**"Enter the number till what you want to print the Fibonacci series : "**))  
Sum = 1  
Temp\_Store1 = 0  
Temp\_Store2 = 1  
print(Temp\_Store1, end=**" "**)  
print(Temp\_Store2, end=**" "**)  
while (Sum <= Number):  
 print(Sum, end=**" "**)  
 Sum = Temp\_Store1 + Temp\_Store2  
 Temp\_Store1 = Temp\_Store2  
 Temp\_Store2 = Sum

**Q. Write an Algorithm and Python Program for checking the Adam’s Number.**

Algorithm

* Start
* Use variable **Number**, **Remainder**, **Quotient**, **Sum**, **Square**
* Read **Number**
* **Quotient** = **Number**
* **Square** = **Number** \*\* 2
* **Sum** = 0
* Repeat

**Remainder** = **Quotient** % 10

**Sum** = **Sum** \* 10+ **Remainder**

**Quotient** //= 10

Until **Quotient** > 0

* **Quotient** = **Sum** \*\* 2
* **Sum** = 0
* Repeat

**Remainder** = **Quotient** % 10

**Sum** = **Sum** \* 10+ **Remainder**

**Quotient** //= 10

Until **Quotient** > 0

* if (**Square** == **Sum**)

Print Adam’s Number

else

Print Not Adam’s Number

* Stop

Python Program

Number = int(input(**"Enter the number to check whether it is Adam's or not : "**))  
Quotient = Number  
Square = Number \*\* 2  
Sum = 0  
while Quotient > 0:  
 Remainder = Quotient % 10  
 Sum = (Sum \* 10) + Remainder  
 Quotient //= 10  
Quotient = Sum \*\* 2  
Sum = 0  
while Quotient > 0:  
 Remainder = Quotient % 10  
 Sum = (Sum \* 10) + Remainder  
 Quotient //= 10  
if (Square == Sum):  
 print(Number, **"is an Adam's Number"**)  
else:  
 print(Number, **"is not an Adam's Number"**)