```python
#read three number
#a) print largest number
#b) print second largest number
#c) sort three numbers

num1=int(input("Enter number:"))

num2=int(input("Enter number:"))

num3=int(input("Enter number:"))

if num1>num2 and num1>num3:

    print(f"{num1} is largest number")

    if num2>num3:

        print(f"{num2} is 2nd largest")

        print(f"{num1} > {num2} >{num
3}")
    else :

        print(f"{num3} is 2nd largest")

        print(f"{num1} > {num3} >{num
2}")
elif num2>num3 and num2>num1:

    print(f"{num2} is largest")

    if num3>num1:

        print(f"{num3} is 2nd largest")

        print(f"{num2} > {num3} >{num
1}")
    else :

        print(f"{num1} is 2nd largest")

        print(f"{num2} > {num1} >{num
3}")
elif num3>num1 and num3>num2:
    print(f"{num3} is largest")

    if num1>num2:

        print(f"{num1} is 2nd largest")

        print(f"{num3} > {num1} >{num
2}")
    else:

        print(f"{num2} is 2nd largest")

        print(f"{num3} > {num2} >{num
1}")
```

```
Enter number:1
Enter number:2
Enter number:3
3 is largest
2 is 2nd largest
3 > 2 >1
PS C:\Users\hp\OneDrive\Desktop\Exam>
```

```python
program2a.py > ...
1    #Read a number and check
2    #a)Given number is prime
3
4
5    num=int(input("Enter the number:"))
6
7    if num<2:
8
9        is_prime=False
10
11    else:
12
13        is_prime=True
14
15        for i in range(2,num):
16
17            if num%i==0:
18
19                is_prime=False
20
21                break
22
23    print(is_prime)
24
25
```

```python
#b)Given number is armstrong

num=int(input("Enter the number:"))

original_num=num

digit_count=len(str(num))

total=0

while num!=0:

    digit=num%10

    exponent=digit**digit_count

    total=total+exponent

    num=num//10

if total==original_num:
    print(f"The {original_num} is an Armstorng number")

else:
    print(f"The {original_num} is not an Armstorng number")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
Enter number:2
Enter number:3
3 is largest
2 is 2nd largest
3 > 2 >1
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/AppData/Local/Programs/F
Enter the b number:7
True
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/AppData/Local/Programs/F
Enter the number:153
The 153 is an Armstorng number
PS C:\Users\hp\OneDrive\Desktop\Exam>
```

```python
#Program to reverse digits in a number

num=int(input("Enter the number:"))

reversed_num=0

while num!=0:

    digit=num%10

    reversed_num=reversed_num*10+digit

    num=num//10

print(reversed_num)
```

2 is 2nd largest
3 > 2 >1
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/App
Enter the number:7
True
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/App
Enter the number:153
The 153 is an Armstorng number
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/App
Enter the number:15687
78651
PS C:\Users\hp\OneDrive\Desktop\Exam>

```python
# program to print lcm of 2 numbers

num1=int(input("Enter the number:"))

num2=int(input("Enter the number:"))

maximum=max(num1,num2)

while(maximum<=num1*num2):

    if(maximum%num1==0 and maximum%num2==0)

        print("LCM is ",maximum)

        break

    maximum+=1
```

```
True
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/A
Enter the number:153
The 153 is an Armstorng number
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/A
Enter the number:15687
78651
PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/A
Enter the number:8
Enter the number:14
LCM is  56
PS C:\Users\hp\OneDrive\Desktop\Exam>
```