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main.py

```
1 text=input()
2 reversed_text=text[::-1]
3 print("Reversed string:",reversed_text)
```

```
123
Reversed string: 321
```

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main.py

```
1  n=int(input())
2  sum=0
3  temp=n
4  while temp>0:
5      digit=temp%10
6      sum+=digit**3
7      temp//=10
8  if n==sum:
9      print("Armstrong number")
10 else:
11     print("Not Armstrong nuber")
```

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main.py

```
1  text=input()
2  if text==text[::-1]:
3      print("Palindrome")
4  else:
5      print("Not Palindrome")
```

main.py

Run

Output

Clea

```
1  decimal_num = int(input("Enter a decimal number:
       "))
2  binary_str = bin(decimal_num).replace("0b", "")
3  print(f"Decimal: {decimal_num}")
4  print(f"Binary: {binary_str}")
5
```

```
Enter a decimal number: 13
Decimal: 13
Binary: 1101

=== Code Execution Successful ===
```

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main.py

Run

Output

```
1  binary_str = input("Enter a binary number: ")
2  decimal_num = int(binary_str, 2)
3  print(f"Binary: {binary_str}")
4  print(f"Decimal: {decimal_num}")
5
```

```
Enter a binary number: 1011
Binary: 1011
Decimal: 11

=== Code Execution Successful ===
```

main.py

Run

Output

```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
c = int(input("Enter third number: "))
if a >= b and a >= c:
    biggest = a
elif b >= a and b >= c:
    biggest = b
else:
    biggest = c
print("The biggest number is:", biggest)
```

```
Enter first number: 10
Enter second number: 15
Enter third number: 20
The biggest number is: 20

=== Code Execution Successful ===
```

main.py

Run

Output

```
1 s=input("enter string:")
2 if(s[::-1]==s):
3     print("pallindrome")
4 else:
5     print("not a pallindrome")
```

```
enter string:madam
pallindrome

=== Code Execution Successful ===
```

main.py

Run

Output

Cle

```
1  n=int(input("Enter number:"))
2  s=0
3  while(n>0):
4      rem=n%10
5      s=s+rem
6      n=n//10
7      print(s)
```

```
Enter number:456
6
11
15

=== Code Execution Successful ===
```

main.py

Run

```
a = input("Enter first value: ")
b = input("Enter second value: ")
print("Before swapping: a =", a, "b =", b)
temp = a
a = b
b = temp
print("After swapping: a =", a, "b =", b)

```

Output

```
Enter first value: 10
Enter second value: 20
Before swapping: a = 10 b = 20
After swapping: a = 20 b = 10

=== Code Execution Successful ===
```

Python Online
Compiler

main.py

Run

Output

```python
n = int(input("Enter number: "))
sum_fact = 0

for d in str(n):
    fact = 1
    for i in range(1, int(d) + 1):
        fact *= i
    sum_fact += fact

if sum_fact == n:
    print("Strong number")
else:
    print("Not a Strong number")
```

```
Enter number: 145
Strong number

=== Code Execution Successful ===
```

main.py

Run

Output

Clea

```python
num = int(input("Enter a number: "))
if num > 1:
    for i in range(2, num):
        if num % i == 0:
            print("Not a Prime number")
            break
    else:
        print("Prime number")
else:
    print("Not a Prime number")
```

```
Enter a number: 5
Prime number

=== Code Execution Successful ===
```

Programiz

Python Online Compiler

Optum

main.py

Run

```
year=int(input("enter year:"))
if(year%400==0 and year%100!=0 or year%4==0):
    print("leap year")
else:
    print("not leap year")
```

Output

```
enter year:2004
leap year

=== Code Execution Successful ===
```

main.py

Run

Output

```
1  l=int(input("enter lower limit:"))
2  h=int(input("enter higher limit:"))
3  for i in range(l,h):
4      c=0
5      for j in range(1,i+1):
6          if(i%j==0):
7              c+=1
8              if(c==2):
9                  print(i)
```

```
enter lower limit:2
enter higher limit:10
2
3
4
5
6
7
8
9

=== Code Execution Successful ===
```

Programiz

Python Online Compiler

main.py

Run

```
1 s1=input("enter string1:")
2 s2=input("enter string2:")
3 if(sorted(s1)==sorted(s2)):
4     print("anagram")
5 else:
6     print("not anagram")
```

Output

```
enter string1:tea
enter string2:eat
anagram

=== Code Execution Successful ===
```

Python Online Compiler

main.py

Run

Output

```
num = float(input("Enter a number: "))
if num > 0:
    print("Positive number")
elif num == 0:
    print("Zero")
else:
    print("Negative number")

```

```
Enter a number: 3
Positive number

=== Code Execution Successful ===
```

main.py

Run

```
1  n = int(input("Enter number of terms: "))
2  a, b = 0, 1
3  count = 0
4  if n <= 0:
5      print("Please enter a positive integer")
6  else:
7      print("Fibonacci sequence:")
8      while count < n:
9          print(a, end=" ")
10         a, b = b, a + b
11         count += 1
```

Output

```
Enter number of terms: 6
Fibonacci sequence:
0 1 1 2 3 5
=== Code Execution Successful ===
```

Python Online Compiler

main.py

Run

Output

```
num = int(input("Enter a number: "))
factorial = 1
if num < 0:
    print("Factorial does not exist for
        negative numbers.")
elif num == 0:
    print("The factorial of 0 is 1.")
else:
    for i in range(1, num + 1):
        factorial *= i
    print(f"The factorial of {num} is
        {factorial}")
```

```
Enter a number: 4
The factorial of 4 is 24

=== Code Execution Successful ===
```

main.py

Run

Output

Clea

```
1  n = int(input("Enter any number: "))
2  sum1 = 0
3  for i in range(1, n):
4      if(n % i == 0):
5          sum1 = sum1 + i
6  if (sum1 == n):
7      print("The number is a Perfect number!")
8  else:
9      print("The number is not a Perfect number!")
```

```
Enter any number: 6
The number is a Perfect number!

=== Code Execution Successful ===
```

main.py

Run

Output

```
1  num = int(input("Enter a number: "))
2  if (num % 2) == 0:
3      print("even")
4  else:
5      print("odd")
```

```
Enter a number: 7
odd

=== Code Execution Successful ===
```

main.py

Run

```
n=int(input("Enter number:"))
temp=n
rev=0
while(n>0):
    dig=n%10
    rev=rev*10+dig
    n=n//10
if(temp==rev):
    print("The number is a palindrome!")
```

Output

```
Enter number:121
The number is a palindrome!

=== Code Execution Successful ===
```