

1. program to display the multiplication table of a given number.

for eg:n=5

1 x 5 = 5

2 x 5 = 10

....

10 x 5 = 50

<pre>a= int(input("Enter the number")) for i in range(1,11): print(f'{i}x{a} = {a*i}')</pre>	Enter the number5 1x5 = 5 2x5 = 10 3x5 = 15 4x5 = 20 5x5 = 25 6x5 = 30 7x5 = 35 8x5 = 40 9x5 = 45 10x5 = 50
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2. program to display the factorial of a number

for eg: 5!->5*4*3*2*1

<pre>a= int(input("Enter the number")) '''factorial is 5*4*3*2*1''' multiply = 1 copy_a = a '''creating a copy because I was using the number in print statement''' while(copy_a>0): multiply = multiply * copy_a copy_a=copy_a-1 print(f'Factorial of {a} is: {multiply}')</pre>	Enter the number5 Factorial of 5 is: 120 === Code Execution Successful
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3. program to check whether the given number is prime or not

<pre>a = int(input("Enter the number: ")) if a <= 1: print("Not prime") else: for i in range(2, a): if a % i == 0: print("Not prime") break else: print("Prime number")</pre>	Enter the number: 10 Not prime === Code Execution S
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4. program to print the numbers from N to 1.

<pre>a = int(input("Enter the number: ")) while a > 0: print(a) a -= 1</pre>	<pre>Enter the number: 5 5 4 3 2 1</pre>
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5. program to check whether the given number is palindrome or not using while loop.

<pre>num = int(input("Enter a number: ")) original = num #creating copy of number reverse = 0 while num > 0: digit = num % 10 # Extracting the last digit using # modulus reverse = reverse * 10 + digit # inserting the extracted digit to reverse number num = num // 10 # Removing the last digit from num if original == reverse: print(f"{original} is a palindrome.") else: print(f"{original} is not a palindrome.")</pre>	<pre>Enter a number: 13331 13331 is a palindrome. === Code Execution Succes</pre>
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6. program to find the sum of digits of a given number using while loop.

<pre>num = int(input("Enter a number: ")) num1=num #creating copy summ = 0 while(num1>0): digit = num1%10 summ = summ + digit num1 = num1//10 print(f'Sum of {num} is {summ}')</pre>	<pre>Enter a number: 2500 Sum of 2500 is 7 === Code Execution Suc</pre>
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