

A-6.py

A-7.py

Python: Current File

A-11.py

launch.json

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A-11.py > ...

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1  # 1. Write a python script to calculate sum of first N natural numbers
2  n=int(input("Enter a number: "))
3  sum1 = 0
4  while(n > 0):
5      sum1=sum1+n
6      n=n-1
7  print("The sum of first n natural numbers is",sum1)
8
9  # 2. Write a python script to calculate sum of squares of first N natural numbers
10 n=int(input("Enter a number: "))
11 sum1 = 0
12 while(n > 0):
13     sum1+=n*n
14     n=n-1
15 print("The sum of squares of first N natural numbers",sum1)
16
17 # 3. Write a python script to calculate sum of cubes of first N natural numbers
18 n=int(input("Enter a number: "))
19 sum1 = 0
20 while(n > 0):
21     sum1+=n*n*n
22     n=n-1
23 print("The sum of first n natural numbers is",sum1)
24
25 # 4. Write a python script to calculate sum of first N odd natural numbers
26 num = int(input("Print sum of odd numbers till : "))
27 sum = 0
28
29 for i in range(1, num + 1):
30     if i % 2 != 0:
31         sum += i
32
33 print("\nSum of odd numbers from 1 to", num, "is :", sum)
34
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A-11.py > ...

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24
25 # 4. Write a python script to calculate sum of first N odd natural numbers
26 num = int(input("Print sum of odd numbers till : "))
27 sum = 0
28
29 for i in range(1, num + 1):
30     if i % 2 != 0:
31         sum += i
32
33 print("\nSum of odd numbers from 1 to", num, "is :", sum)
34
35 # 5. Write a python script to calculate sum of first N even natural numbers
36 num = int(input("Print sum of odd numbers till : "))
37 sum = 0
38
39 for i in range(1, num + 1):
40     if i % 2 == 0:
41         sum += i
42
43 print("sum of first N even natural numbers", num, "is :", sum)
44
45 # 6. Write a python script to calculate factorial of a given number
46 num = int(input("factorial number : "))
47 sum = 1
48
49 for i in range(1, num + 1):
50     sum *= i
51
52 print("factorial of a given number", num, "is :", sum)
53
54 # 7. Write a python script to count digits in a given number
55 num = int(input("Enter a numer \n"))
56 count = 0
57 while num>0:
58     count +=1
59     num = num//10
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A-11.py > ...
57 while num>0:
58     count +=1
59     num = num//10
60
61 print("count digits in a given number",count)
62
63 #8. Write a python script to calculate sum of digits of a given number
64 a = int(input("enter a number: "))
65 total = 0
66 while (a>0):
67     tot = a%10
68     total = total + tot
69     a = a//10
70 print("the sum of number",total)
71
72 # 9. Write a python script to print binary equivalent of a given decimal number. (do not use bin() method)
73 n=int(input("Enter a number: "))
74 a = []
75 while(n>0):
76     tot=n%2
77     a.append(tot)
78     n=n//2
79 a.reverse()
80 print("Binary Equivalent is: ")
81 print(a)
82
83 # 10. Write a python script to print the octal equivalent of a given decimal number. (do not use oct() method)
84 n=int(input("Enter a number: "))
85 a = []
86 while(n>0):
87     tot=n%8
88     a.append(tot)
89     n=n//8
90 a.reverse()
91 print("octal equivalent is: ")
92 print(a)
93
```