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1 # 1 Palindrome or not
2 x = eval(input("enter the number : "))
3 temp = x
4 rev = 0
5 while x > 0:
6     n = x % 10
7     rev = rev*10 + n
8     x = x // 10
9 if temp == rev:
10     print("palindrome")
11 else:
12     print("not palindrome")
13
14 # 2 divisible by 11 not by 2
15 n = eval(input("enter the number : "))
16 if n % 11 == 0 and n % 2 != 0 :
17     print("yes")
18
19 # 3 sum of digits
20 n = eval(input("enter the number : "))
21 x = 0
22 while n > 0:
23     x = x + ( n % 10)
24     n = n // 10
25 print(x)
26
27 # 4 factorial
28 n = eval(input("enter the number : "))
29 x = 1
30 while n > 0:
31     x = x * n
32     n = n - 1
33 print(x)
34
35 # 5 product of digits
36 n = eval(input("enter the number : "))
37 x = 1
38 while n > 0:
39     x = x * ( n % 10)
40     n = n // 10
41 print(x)
42
43 # 6 average of the List
44 list1 = [34, 6, 43, 2, 32, 44, 55, 33, 32]
45 x = sum(list1) / len(list1)
46 print(x)
47
48 # 7 reverse a string
49 x = input("enter the string : ")
50 n = ""
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51 for i in x:
52     n = i + n
53 print(n)
54
55 # 8 fibonacci series
56 a = eval(input("enter the number : "))
57 x = 0
58 y = 1
59 n = 0
60 print(x)
61 print(y)
62 while (a - 2) > 0:
63     n = x + y
64     x = y
65     y = n
66     print(n)
67     a = a - 1
68
69 # 9 table of 5 with +=
70 n = 10
71 a = 0
72 while n > 0:
73     a += 5
74     print(a)
75     n = n - 1
76
77 # 10 swap the values with keys
78 module = {'Data Science': 1, 'Machine Learning': 2, 'SQL': 3,
            'Big Data': 4}
79 new_dict = {}
80 for key, value in module.items():
81     new_dict[value] = [key]
82 print(new_dict)
83
84 # 11 extract the uppercase character
85 Days = ['Monday', 'tuesday', 'Wednesday', 'thursday', 'Friday',
          'saturday', 'Sunday']
86 for i in Days:
87     if i[0].isupper():
88         print(i)
89
90 # 12 number is armstrong
91 n = eval(input("enter the number : "))
92 b = n
93 a = 0
94 x = 0
95 while n > 0:
96     x = n % 10
97     a = a + x**3
98     n = n // 10
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99 if b == a:
100     print("armstrong")
101 else:
102     print("not an armstrong")
```