SET - A

I python program to calculate the Alea of a Triangle.

b = float (input ("Enter the bage:"))

h = float (input ("Enter the height:"))

area = 112 * b * h

print ("area of triangle::", area)

output :-

Enter the base: 3 Enter the height: 6.8 Alea of a triangle: 6.8

2) python program to swap Two variables

- a = input ("Enter the value:")

b = input (Enter the value:")

Teamp a

a = b

print (" swaping value:", a)

print (" swaping value:", b)

output:

Enter the value 1:10
Enter the value: 20
Swaping value 1:20
Swaping value 2:10

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3) python program to Generate a Random number
          import random
        print (random · tondorm (1.9))
        print (random · randrange (1,9,2))
       output: 2
                    SET - B
 I write a python program to check if a number is positive
    Negative or zero
    num = int (input ("Enter the number"))
       if ( hum = = 0):
     print ( " Number is postfile ")
      else if (Num 70):
       print (" number is positive")
        print (" number is negative")
     OUT PUT !-
            Enter the number = 22
            number is positive
 2) write a python program to check if a number is odd or
  num = int (input ("Enter the number"))
      if ( num 90 2 == 0):
                                                 2022.01.14 10:58
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print (" number is even ")
     print ( " number is odd )
     output :-
      Enter the number : 4
        number is even.
3) write a python program to check prime number
   num = int (input ("Enter the number"))
         flag = 0
          for i in rang (a, nom);
          if ( num y ! i = = 0);
           flag=1
         if (flag = =0):
         print (" Number is prime")
           print ( " Number is not prime")
     output:-
               Enser the number : 7
                Number is prime
```

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4) write a python program to check Armstrong number
  nom = int (input (" Enter the number"))
        5um = 0
      num 1 = num
     while (num 170):
        d= num 1-1-10
          nom 1 = int (num 1 H.10)
             sum > sum + d * d xd
           if ( num = = sum ):
     print ( " number is armstrong ")
      print ( "Number is not armstrong")
       Output :-
            Enter the number : 159
            number is armstrong
 5) write a python program to find the factorial of a number
     num = int (input ("Enter the number "))
        fact = 1
      for lintong (1. numti);
        fact = fact x i
       printf ( "factorial = ", fact )
      Output :-
             Enter the number 1: 4
             factorial = 24
                                               2022.01.14 10:58
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PROGRAMS FOR PRACTICE: 1) python program to convert kiolometers to miles km = float (input (" Enter the kio Kiolometers ")) mile = Km * 0 . 62197 print ("miles : ", mile) output ! Enter the Kilometers = 10 miles: 6.219699999. 2) python program to convert celsius to fahrenheit cel = float (input ("enter the celcuius:")) for = cel * (915)+32 print (" fahrenhite: ", fat) OUAput :-EX Enter the ceto- celcius: 184 fahrenite: 219.20000002 write a python to check leap yrac yr = int (input ("Enter the year")) if - (4+1.4==0): print ("leap year") print ("Not leap year") output: Enter the year: 2000 leap year.

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4) write a python program to print all prime numbers
      an Interval
    a= int (input ("Enter the starting interval:"))
   b = int (input ("Enter the ending interval: "))
       for n in rang (a,b);
           flag=0
        fori in rang (2,n):
           if (ny. i== 0):
             flag =1
            break
        if (flag == 0):
          print (n)
     Output !-
              enter the starting point ! 1
              Enter the ending point:3
    write a python program to print the Fibonacci sequence
        F=0
        5 = 1
      print ("fibonacci series ", f.s. end = "It")
        for i in rang (1,10)
          t=fts
         print (trend = "It")
            1=5
                                              2022.01.14 10:59
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output !-
       fibonacci series :: 01128581343455
6) write a python program to find Armstrong number in an
    Interval
     a = int (input ("starting number !!"))
     b = int (input (" Ending number :1"))
        for i in range (aib):
      while (nzo):
          d = n -/ 10
            h = int (n110)
            5 = 5 + (d + d + d)
             if (s == i): print (i)
  OIP Starting no = 1 , Ending no = 10000
           1. 153, 370, 341, 407
I write a python program to find the sum of nutural numbers
      n = int (input ("starting number ""))
      hi = int (input ( " ending number ::"))
       for i in range (n, n+1);
           5 = sti
        print ( " sum of natural number: "15)
      Output - Starting point:
         sum of natural number: 5
```