D: > sam > python > 🐍 tes2.py > ...

```python
#assignment5 second question
n=0,1,2,3,4,5,6
for i in n:
    if i==3:
        continue
    if i==6:
        continue
    print(i)


```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes2.py
0
1
2
4
5
```

D: > sam > python > 🐍 tes3.py > ...

```python
#assignment5 third question
for i in range(0,50):
    if(i%3==0) and (i%5==0):
        print("fizzbuzz")
        continue
    elif(i%3==0):
        print("fizz")
        continue
    elif(i%5==0):
        print("buzz")
    else:
        print(i)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
5
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes3.py
fizzbuzz
1
2
fizz
4
buzz
fizz
7
8
fizz
buzz
11
fizz
13
```

D: > sam > python > tes26.py > ...

```python
#ass-5 4th question
x=int(input("length of first side:"))
y=int(input("length of second side:"))
z=int(input("third side of triangle:"))
if(x==y)and(y==z)and(z==x):
    print("Equilateral traingle")
elif(x==y)and(y==z)and(z!=x):
    print("Isosceles traingle")
elif(x!=y)and(y!=x)and(z!=x):
    print("Scalene triangle")
else:
    print("its not the triangle")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes26.py
length of first side:6
length of second side:8
third side of triangle:12
Scalene triangle
```

D: > sam > python > tes4.py > ...

```python
#ass-5 5th question
count=0
sum=0.0
number=1
while number!=0:
    number=int(input("enter the number:"))
    sum=sum+number
    count+=1
if count==0:
    print("enter some number")
else:
    print("average and sum of numbers are:",sum/(count-1),sum)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
enter the number:4
enter the number:5
enter the number:3
enter the number:0
average and sum of numbers are: 4.0 12.0
```

D: > sam > python > tes27.py > ...

```python
#ass-5 6th question
n=10
for i in range(n):
    for j in range(i):
        print(i,end='')
    print('')
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes27

```
1
22
333
4444
55555
666666
7777777
88888888
999999999
```

D: > sam > python > 🐍 tes28.py > ...

```python
#ass-5 7th question

 (variable) count: Literal[0]

count=0
for i in list:
    if i>j:
        count+=1

print("values greater than 30 are:",count)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes28.py
values greater than 30 are: 3
```

D: > sam > python > tes29.py > ...

```python
#ass-5 8th question
l=int(input("enter the length:"))
b=int(input("enter the breadth:"))
if(l!=b):
    print("its the rectangle")
else:
    print("its the square")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes29.py
enter the length:5
enter the breadth:6
its the rectangle
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes29.py
enter the length:4
enter the breadth:4
its the square
```

D: > sam > python > 🐍 tes37.py > ...

```python
1  #ass-5 9th question
2  qty=int(input("enter the quantity:"))
3  unit_cost=100
4  total_cost=qty*unit_cost
5  if total_cost>1000:
6      total_cost*=0.9
7      print("the total cost for these units is:",total_cost)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes37.py
enter the quantity:25
the total cost for these units is: 2250.0
```

D: > sam > python > 🐍 tes38.py > ...

```python
#ass-5 10th question
sal=float(input("enter your salary:"))
years_of_service=int(input("enter your years of service:"))
bonus=0
if years_of_service>5:
    bonus=sal*0.05
    print("the net bonus amt is:",bonus)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes38.py
enter your salary:40000
enter your years of service:8
the net bonus amt is: 2000.0
```

D: > sam > python > tes30.py > ...

```python
#ass-5 11th question
m=int(input("enter the mark"))
if(m>0)and(m<25):
    print("F")
elif(m>25)and(m<45):
    print("E")
elif(m>45)and(m<50):
    print("D")
elif(m>50)and(m<60):
    print("C")
elif(m>60)and(m<80):
    print("B")
else:
    print("A")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes30.py
enter the mark70
B
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes30.py
enter the mark98
A
```

D: > sam > python > tes31.py > ...

```python
#ass-5 12th question
a=int(input("enter the number of classes held"))
b=int(input("enter the number of classes attended"))
attendance=(b/a)*100
print("percentage of class attended:",attendance)
if(attendance<75):
    print("student is not allowed to sit in exam")
else:
    print("student is allowed to sit in exam")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
enter the number of classes held30
enter the number of classes attended19
percentage of class attended: 63.33333333333333
student is not allowed to sit in exam
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes31.py
enter the number of classes held30
enter the number of classes attended25
percentage of class attended: 83.33333333333334
student is allowed to sit in exam
```

D: > sam > python > 🐍 tes32.py > ...

```python
1   #ass-5 13th question
2   sum=0
3   for i in range(10):
4       n=int(input("enter the number:"))
5       sum=sum+n
6   avg=sum/10
7   print("average of these values are:",avg)
8
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes32.py
enter the number:3
enter the number:5
enter the number:10
enter the number:14
enter the number:25
enter the number:50
enter the number:72
enter the number:81
enter the number:94
enter the number:43
average of these values are: 39.7
```

D: > sam > python > tes33.py > ...

```python
#ass-5 14th question
a=int(input("enter the number:"))
b=24
c=50
d=29
for i in range(1,11):
    if(a==b):
        print(a,'x',i,'=',a*i)
    elif(a==c):
        print(a,'x',i,'=',a*i)
    elif(a==d):
        print(a,'x',i,'=',a*i)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
enter the number:24
24 x 1 = 24
24 x 2 = 48
24 x 3 = 72
24 x 4 = 96
24 x 5 = 120
24 x 6 = 144
24 x 7 = 168
24 x 8 = 192
24 x 9 = 216
24 x 10 = 240
```

D: > sam > python > tes33.py > ...

```python
1    #ass-5 14th question
2    a=int(input("enter the number:"))
3    b=24
4    c=50
5    d=29
6    for i in range(1,11):
7        if(a==b):
8            print(a,'x',i,'=',a*i)
9        elif(a==c):
10           print(a,'x',i,'=',a*i)
11       elif(a==d):
12           print(a,'x',i,'=',a*i)
13
14
15
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes33.py
enter the number:50
50 x 1 = 50
50 x 2 = 100
50 x 3 = 150
50 x 4 = 200
50 x 5 = 250
50 x 6 = 300
50 x 7 = 350
50 x 8 = 400
50 x 9 = 450
50 x 10 = 500
```

D: > sam > python > tes33.py > ...

```python
#ass-5 14th question
a=int(input("enter the number:"))
b=24
c=50
d=29
for i in range(1,11):
    if(a==b):
        print(a,'x',i,'=',a*i)
    elif(a==c):
        print(a,'x',i,'=',a*i)
    elif(a==d):
        print(a,'x',i,'=',a*i)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes33.py
enter the number:29
29 x 1 = 29
29 x 2 = 58
29 x 3 = 87
29 x 4 = 116
29 x 5 = 145
29 x 6 = 174
29 x 7 = 203
29 x 8 = 232
29 x 9 = 261
29 x 10 = 290
```

D: > sam > python > tes34.py > [∅] count

```python
count=0     #ass-5 15th question
product=1
sum=0
while True:
        try:
            num=input("enter the integer(or 'q' to quit):")
            if num=='q':
                break
            else:
                i=int(num)
                sum+=i
                product=product*i
                count+=1
        except ValueError:
            print("invalid value")
if(count>0):
        avg=sum/count
        print("average of these are:",avg)
        print("product is:",product)
else:
        print("no valid data provided")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
enter the integer(or 'q' to quit):5
enter the integer(or 'q' to quit):15
enter the integer(or 'q' to quit):20
enter the integer(or 'q' to quit):q
average of these are: 13.333333333333334
product is: 1500
```

D: > sam > python > 🐍 tes35.py > ...

```python
#ass-5 16th question
list=[]
n=int(input("enter the number of elements in the list:"))
for i in range(n):
    ele=input("enter the element")
    list.append(ele)

search_item=input("enter the item name to search:")
if search_item in list:
        list.remove(search_item)
        print("search_item removed from list")
print("modified list is:",list)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
enter the number of elements in the list:4
enter the element2
enter the elementcharu
enter the element4.9
enter the elementram
enter the item name to search:charu
search_item removed from list
modified list is: ['2', '4.9', 'ram']
```

D: > sam > python > tes36.py > ...

```python
#ass-7 17th question
list=[]
print("odd numbers in the list are:")
for i in range(1,101+1):
    list.append(i)
    if i%2!=0:
        print(i,end=" ")
list1=[]
print("\neven numbers in the list are:")
for i in range(1,101+1):
    list1.append(i)
    if i%2==0:
        print(i,end=" ")
list2=[]
print("\nprime numbers in the list are:")
for num in range(2,101):
    prime = True
    for i in range(2,num):
        if (num%i==0):
            prime = False
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
odd numbers in the list are:
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81
 83 85 87 89 91 93 95 97 99 101
even numbers in the list are:
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 8
2 84 86 88 90 92 94 96 98 100
prime numbers in the list are:
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
```

```python
 6          if i%2!=0:
 7              print(i,end=" ")
 8      list1=[]
 9      print("\neven numbers in the list are:")
10      for i in range(1,101+1):
11          list1.append(i)
12          if i%2==0:
13              print(i,end=" ")
14      list2=[]
15      print("\nprime numbers in the list are:")
16      for num in range(2,101):
17          prime = True
18          for i in range(2,num):
19              if (num%i==0):
20                  prime = False
21          if prime:
22              print (num,end=" ")
23
24
25
```

D: > sam > python > 🐍 tes25.py > ...

```python
#ass-5 1st question
n=[]
for i in range(1500,2700):
    if(i%7==0)and(i%5==0):
        n.append(str(i))
print(','.join(n))
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes25.py
1505,1540,1575,1610,1645,1680,1715,1750,1785,1820,1855,1890,1925,1960,1995,2030,2065,2100,2135,2170,2205,2240,2275,23
10,2345,2380,2415,2450,2485,2520,2555,2590,2625,2660,2695
```

```python
14    li5=[x for x in list3 if x%3==0]
15    print("numbers divisible by 3 are:",li5)
16    li6=[x for x in list3 if x%5==0]
17    print("numbers divisible by 5 are:",li6)
18    li7=[x for x in list3 if x%7==0]
19    print("numbers divisible  by 7 are:",li7)
20    li8=[x for x in list3 if x%9==0]
21    print("numbers divisible by 9 are:",li8)
22
23
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
numbers divisible by 8 are: [8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88]
numbers divisible by 10 are: [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
numbers divisible by 3 are: [6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 3, 9, 15, 21, 27, 33, 39, 45,
 51, 57, 63, 69, 75, 81, 87, 93, 99]
numbers divisible by 5 are: [10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 5, 15, 25, 35, 45, 55, 65, 75, 85, 95]
numbers divisible  by 7 are: [14, 28, 42, 56, 70, 84, 98, 7, 21, 35, 49, 63, 77, 91]
numbers divisible by 9 are: [18, 36, 54, 72, 90, 9, 27, 45, 63, 81, 99]
```

D: > sam > python > tes40.py > ...

```python
#ass-5 19th question
list=[1,2,'sam','rani','rukmini',2.5,8.9]
l1=[]
l2=[]
l3=[]
for item in list:
    if isinstance(item,int):
        l1.append(item)
    if isinstance(item,str):
        l2.append(item)
    if isinstance(item,float):
        l3.append(item)
print("int list is:",l1)
print("str list is:",l2)
print("float list is:",l3)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes40.py
int list is: [1, 2]
str list is: ['sam', 'rani', 'rukmini']
float list is: [2.5, 8.9]
```

D: > sam > python > 🐍 tes41.py > ...

```python
1    #ass-5 20th question
2    listno=[1,5,3,2,7,6]
3    square=[x**2 for x in listno]
4    print(square)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\hp> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe d:/sam/python/tes41.py
[1, 25, 9, 4, 49, 36]

```python
1       (variable) list2: list[int]
2                            ,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,
3    list2=[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,7
4    list3=list1+list2
5    print("combination of two lists is:",list3)
6    li1=[x for x in list3 if x%4==0]
7    print("numbers divisible by 4 are:",li1)
8    li2=[x for x in list3 if x%6==0]
9    print("numbers divisible by 6 are:",li2)
10   li3=[x for x in list3 if x%8==0]
11   print("numbers divisible by 8 are:",li3)
12   li4=[x for x in list3 if x%10==0]
13   print("numbers divisible by 10 are:",li4)
14   li5=[x for x in list3 if x%3==0]
15   print("numbers divisible by 3 are:",li5)
16   li6=[x for x in list3 if x%5==0]
17   print("numbers divisible by 5 are:",li6)
18   li7=[x for x in list3 if x%7==0]
19   print("numbers divisible  by 7 are:",li7)
20   li8=[x for x in list3 if x%9==0]
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
combination of two lists is: [2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46,
 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 86, 98, 100, 1, 3, 5
, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 6
5, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101]
numbers divisible by 4 are: [4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92
, 100]
numbers divisible by 6 are: [6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90]
numbers divisible by 8 are: [8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88]
```