```python
##ques -1

l1=[1,4,5,6,23,45]
L=[ ]
j=0

i=0

for i in l1:
    L.append(i**1/2)

print(L)
```

```
[0.5, 2.0, 2.5, 3.0, 11.5, 22.5]
```

```python
##other way-:
l2=[(x**1/2) for x in l1]
print(l2)
```

```
[0.5, 2.0, 2.5, 3.0, 11.5, 22.5]
```

```python
##ques -2

for i in range(1,100):
    if(i%3==0 and i%5==0):
        print(i)
    else :
        continue
```

```
15
30
45
60
75
90
```

```python
#ques -3

x=str(input("enter letter here: "))
if(x.isupper()==True):
   y=x.lower() ##incase if given letter is of upper case, it will be
converted to lower case;
else:
    y=x
```

```python
if(y=='a' or y=='e'or y=='i' or y=='o' or y=='u' ):
    print("given letter is VOWEL")
else :
    print("given letter is  CONSTANT")
```

```
given letter is VOWEL
```

#ques -4

```python
x=input("1st letter: ")
y=input("2nd letter: ")
print(ord(y)-ord(x)) ##convert alpha into ascii
```

```
21
```

##QUES -5

```python
s=str(input("enter your string here : "))

def funt(s):
    count=0
    ##incase if given letter is of upper case, it will be converted to
lower case;
    for  i in s:
        if(i.isupper()==True):

            y=i.lower()
        else:
            y=i
        if(i=="a"or i=='e'or i=='i' or i=='o' or i=='u'):
            count=count+1
        else :
            continue
    return count




c=funt(s)
print("no. of vowels in  strings are :",c)
```

```
no. of vowels in  strings are : 3
```

QUES -6

```python
    # Display the alphabets
    print("The Alphabets from A to Z are: ");

    for i in range(ord('A'), ord('Z') + 1):

        # Print the alphabet
        print(chr(i), end=" , "); ##chr() ia inbuilt function to
convert ascii to char;
```

```
The Alphabets from A to Z are:
A , B , C , D , E , F , G , H , I , J , K , L , M , N , O , P , Q ,
R , S , T , U , V , W , X , Y , Z ,
```

o

QUES -7

```python
# creating an empty list
lst = []

# number of elements as input
n = int(input("Enter number of elements : "))

L=[]
for i in range(0, n):
    num=int( input())

    lst.append(num) # adding the element

    sum=0
for i in lst:
   if(i%2==0):
      sum=sum +i
   else :
      continue

print(sum)
```

12

QUES-8

```python
n=int(input("no. of element: "))
i=0
for i in range (0,n):
    num=int(input())



    if(num%3!=0):
        print(num**2)
```

```
16
64
100
```

QUES-9

```python
s1=input()
s2=input()


s1=s1.replace('A','a')
s2=s2.replace('A','a')
print(s1+s2)
```

```
aaSHIaryab
```

QUES-10

```python
l1=[]
L=[]
n=int(input("no of elements in list: "))
for i in range(0,n):
    i=int(input())
    l1.append(i)

for i in l1:
    if(i%2==1): #to get odd num in list
        L.append(i)
    else :
        continue
print(L)
```

```
[7, 9]
```

QUES-11

```python
s1=str(input("entre your string here :"))

for i in s1:
```

```python
    if(i.isupper()):
        i=i.lower()
    else :
        i=i.upper()
    print(i,end="")
```

aaSHIi

QUES-12

```python
def fact(i):
    if(i==1):
        return 1
    else :
        product=i*fact(i-1)
        return product

x=int(input())

y=int(input())
for i in range(x,y):
    if(i%2==1):
        print("factorial of ",i,end=" is ")
        print(fact(i))
```

```
factorial of  3 is 6
factorial of  5 is 120
factorial of  7 is 5040
factorial of  9 is 362880
```