

Lab 8 assignment:

Q1:

```
n=int(input("Enter the number for
factorial="))

r=int(input("r="))

def fact():

    fac=1

    i=1

    while i<=n :

        fac=fac*i

        i=i+1

    return fac

a=fact()

b=n-r

def factorial(b):

    fac=1

    i=1

    while i<=b :

        fac=fac*i

        i=i+1

    return fac

c=a/factorial(b)

print("The permutation of n and r is
",c)
```

Output:

Q2:

```
n = int(input("Enter the value "))  
  
def factorfndr(x):  
    print("factor of " , n ,"are","\n' )  
    for i in range (1,x+1):  
        if x%i ==0:  
            print(i)  
  
factorfndr(n)
```

Output:

```
Enter the value 4  
factor of  4 are
```

```
1  
2  
4
```

Q3:

```
#sum of first 10 num divi by 3and9
p=0
q=0
i=1
while True:
    if i%3 == 0 and i % 9 == 0:
        q=q+i
        p+=1
    if p==10:
        break
    i+=1
print(q)
```

Output:

495

Q4:

```
#find fabonacci sequence

p=int(input("How many terms? "))

q,r=0,1

z = 0

if p<=0:

    print("Please enter a positive
integer")

elif p==1:

    print("Fibonacci sequence
upto",p,":")

    print(q)

else:

    print()

    while z<p:

        print(q)

        nth= q+r

        # changes

        q= r

        r=nth

        z+=1
```

Output:

How many terms? 8

0

1

1

2

3

5

8

13
