

PROGRAMMING FUNDAMENT LAB TASK # 8

NAME: SHERALI

ROLL NO: P21-8024_SHERALI

BSCS_21

QUESTION1:

```
n=int(input("enter value of n"))
r=int(input("enter value of r"))
def fac(x):
    i=1
    a=1
    while i<=x:
        a*=i
        i+=1
    return a
a=fac(n)
b=fac(n-r)
x=a/b
print("npr","value","is",x )
```

OUTPUT:

```
enter value of n5  
enter value of r4  
npr value is 120.0
```

QUESTION 2:

```
i=int(input("enter number"))  
for x in range(2,i+1):  
    if x==i:  
        continue  
    if i%x==0:  
  
        print(x)
```

OUTPUT:

```
enter number12  
2  
3  
4  
6
```

QUESTION 3:

INPUT:

```
a=int(input("enter number"))
b=int(input("enter number"))

i = 0
mul = 9
b = 0
while i < 10:
    i += 1
    a = mul * i
    b += a
print("sum of first ten number divisible by 3 and 9","is",b)
```

OUTPUT:

```
enter number3
enter number9
sum of first ten number divisible by 3 and 9 is 495
```

QUESTION4:

```
n=int(input("enter number"))
```

```
def fab(n):
```

```
    a = 0
```

```
    b = 1
```

```
    print("0")
```

```
    print("1")
```

```
    if n==0:
```

```
        print("a")
```

```
    elif n==1:
```

```
        print("b")
```

```
    else:
```

```
        for i in range(2, n):
```

```
            c=a+b
```

```
            a=b
```

```
            b=c
```

```
            print(c)
```

```
fabinaci_sequence=fab(n)
```

```
print("fabinaci series")
```

OUTPUT:

```
enter number15
```

```
0
```

```
1
```

```
1
```

```
2
```

```
3
```

```
5
```

```
8
```

```
13
```

```
21
```

```
34
```

```
55
```

```
89
```

```
144
```

```
233
```

```
377
```

```
fabinaci series
```

QUESTION5:

Sir I am unable to attempt this!