```
5
20
60
120
120
```

[7]:
```python
#15-09-25
#write a program to check the given number is prime or not
num=int(input("enter a num"))
count=0

print("bc=",count) #bc=before count
for i in range (2,num,1):
    if(num%i==0):
        count =count+1 #count=2
    else:
        count=count
print ("ac=",count)
if(count==0):
    print("prime number")
else:
    print("not a prime number")


#alternate program by using break loop function


num = int(input())
for i in range(2,num,1):
    if(num%i==0):
        print("not a prime number")
        break
    else:        (#any number which is not divisable by any number is prime number)
        print("prime number")


enter a num 2
```

```
enter a num 2
bc= 0
ac= 0
prime number
 4
not a prime number
```

[4]:
```python
#LOOP STATEMENTS
#1.BREAK:IT WIL BREAK TILL WHERE MENTIONED FOR EXAMPLE BREAK==5 , IT WILL B
#2.CONTINUE:IT WILL SKIP PARTICULAR CONDITION OR NUMBER
#3.PASS
#EXAMPLES:
#1.BREAK:
for i in range(1,11,1):
    if(i==5):
        continue
    else:
        print(i)
```

```
1
2
3
4
6
7
8
9
10
```

[6]:
```python
#example for break loop:
for i in range(1,11,1):
    if(i==5):
        break    #number gets break execution  or stops by 5
```

10

```
[6]: #example for break loop:
     for i in range(1,11,1):
         if(i==5):
             break    #number gets break execution   or stops by 5
         else:
             print(i)
```

1
2
3
4

```
[ ]: while loop syntax:

     Initialization
     while(condition):
         statements
         incrementation/decrementation
```

```
[ ]: #name="priyanka"
     #o/p
     #0=p
     #1=r

     #7=a

     name=Amsaveni
     i=0
     while(i<len(name)): #lenth of the name is 8 but we mention
```