Q1)# Write a program to print multiples of a number upto a limit. Take inputs from the
user.
Input : Enter a number - 6
Enter limit - 60
Output : 6 ,12 ,18 , 24,36,...,60
```python
number=int(input(" Enter a number: "))
limit=int(input("Enter limit: "))
for x in range(1,limit+1):
    print(x*number)
    if x*number==limit:
        break
```
Q2)# write a program to print the following pattern & Take no of rows from the
user.
1 2 9 4
25 6 49 8
81 10 121 12
169 14 225 16

Q3)# write a program to print the following pattern & Take no of rows from the
user.
E D C B A
E D C B A
E D C B A
E D C B A
E D C B A
```python
rows=int(input("Enter no of rows: "))
for x in range(rows):
    c=64+rows
    for y in range(rows):
        print(chr(c),end=" ")
        c=c-1
    print()
```

Q4)# write a program to print the following pattern using a nested while loop &
Take no of rows from the user..
1
1 0
1 0 1
1 0 1 0
1 0 1 0 1
```python
rows=int(input("Enter the number of rows: "))
for x in range(rows):
    n=1
    for y in range(x+1):
        print(n%2,end=" ")
        n=n+1
    print()
```

Q5)# write a program to print the following pattern & Take no of rows from the
user.
1
2 4
3 6 9

```python
# 4 8 12 16
# 5 10 15 20 25
rows=int(input("Enter the number of rows: "))
for x in range(rows):
    n=1
    for y in range(x+1):
        print(n*(x+1),end=" ")
        n=n+1
    print()

Q6)# Write a program to print the tables of 1 to n numbers in reverse order
# Input : Enter n limit : 6
# Output : 6 12 18 24 30 36 42 48 54 60
# 5 10 15 20 25 30 35 40 45 50
# .
# .
# 2 4 6 8 10 12 14 16 18 20
# 1 2 3 4 5 6 7 8 9 10
limit=int(input("Enter the limit: "))
for x in range(limit):
    for y in range(1,11):
        print(limit*y,end="")
    limit=limit-1
    print()

Q7)# Write a program to print alternative numbers in reverse order between 15 to
30.
# Input: enter first no : 15
# Enter second no : 30
# Output: 30 28 26 24 22 20 18 16
first=int(input("Enter first number: "))
last=int(input("Enter first number: "))
for x in range(last):
    if last>=first:
        print(last,end=" ")
    last=last-2


Q8)# Write a program to print the count of even numbers which are divisible by 5
from 1 to 50 .
# Input: Enter lower limit : 1
# Enter upper limit : 50
# Output: 10 ,20 ,30 ,40 ,50
lower_limit=int(input("Enter the lower limit: "))
upper_limit=int(input("Enter the upper limit: "))
for x in range(lower_limit,upper_limit+1):
    if x%5==0 and x%2==0:
        print(x)

Q9)# write a program to print the following pattern & Take no of rows from the
user.
# 1
# 1 2
# 2 3 4
```

```
# 4 5 6 7
# 7 8 9 10 11
rows=int(input("Enter the number of rows: "))
n=1
for x in range(rows):
    for z in range(x+1):
        print(n-x,end=" ")
        n=n+1

    print()

Q10)# write a program to print a series of prime numbers from entered range. (
Take a
# start and end number from user )
# Perform a dry run at least from 1 to 20 …
# Input :-
# Enter starting number : 1
# Enter ending number : 100
# Output :-
# Series = 2 3 5 7 11 13 17 19 ….. 89 97
start=int(input("Enter the start range: "))
end=int(input("Enter the end range: "))
for x in range(start,end+1) :
    if x>1:
        for y in range(2,x):
            if(x%y)==0:
                break
        else:
          print(x)
```