```
for num in range(10,51):
  for i in range(2,num):
    if num % i == 0:
      break
  else:
    print(num,end=' ')
```

        11 13 17 19 23 29 31 37 41 43 47

▾ while loop

```
num = 947
rev = 0
while num != 0:
  digit = num % 10
  rev = rev * 10 + digit
  num = num // 10
print(rev)
```

    749

```
i = 1
while i <= 5:
  print(i)
  i = i + 1
```

    1
    2
    3
    4
    5

```
s = 'python'
for i in s:
  print(i)
```

    p
    y
    t
    h
    o
    n

```
s = 'python'
index = 0
while index < len(s):
  print(s[index])
  index = index + 1
```

    p
    y
    t
    h
    o
    n

```python
s = 'hyderabad'
for i in s:
  if i in 'aeiouAEIOU':
    print(i,end=' ')
```

```
e a a
```

```python
s = 'hyderabad'
index = 0
while index < len(s):
  if s[index] in 'aeiouAEIOU':
    print(s[index],end=' ')
  index = index + 1
```

```
e a a
```

```python
i = 1
while i <= 5:
  print(1,end=' ')
  i = i + 1
```

```
1 1 1 1 1
```

```python
i = 1
while i <= 10:
  print(i,end=' ')
  i = i + 1
```

```
1 2 3 4 5 6 7 8 9 10
```

```python
i = 1
while i <= 10:
  print(i,end=' ')
  if i == 6:
    break
  i = i + 1
```

```
1 2 3 4 5 6
```

```python
i = 1
while i <= 10:
  print(i,end=' ')
  if i % 4 == 0:
    continue
  i = i+1
```

```python
i = 1
while i <= 10:
  if i % 4 == 0:
    i = i + 1
    continue
```

```
  print(i,end=' ')
1 2 3 5 6 7 9 10
```
1 2 3 5 6 7 9 10

```
s = 'python'
i = 0
while i < len(s):
  print(s[i],end='')
  i = i + 1
```
    python

```
s = 'python'
i = len(s) - 1
while i >= 0:
  print(s[i],end='')
  i = i - 1
```
    nohtyp

```
num = 786
rev = 0
while num != 0:
  digit = num % 10
  rev = rev * 10 + digit
  num = num // 10
else:
  print('reverse number :',rev)
```
    reverse number : 687

```
num = 121
backup = num
rev = 0
while num != 0:
  digit = num % 10
  rev = rev * 10 + digit
  num = num // 10
else:
  num = backup
  if num == rev:
    print(rev,'is a palindrome number')
  else:
    print(rev,'is not a palindrome number')
```
    121 is a palindrome number

```
i = 10
while i <= 20:
  if i % 2 == 0:
    print(i,end=' ')
  i = i + 1
```

```
10 12 14 16 18 20
```

```python
# wap using while loop to display
# prime numbers from 10 to 50
```