

1.

i.

```

.
μ μ      μ
:
.      μ      0
.      μ      μ
.      μ      0
.      μ      0
    
```

```

S = 0
P = 0
A = input(" :")
while A > 0 :
    if A % 2 == 1 :
        S = S + A
    else:
        P = P * A
A = input(" :")
    
```

ii.

```

μ ; μ
. 2
. -4
. -1
. 4
    
```

```

a = 2
b = -3
while b <= 0 :
    b = b + 1
    a = a + b - 1
print a
    
```

iii.

```

μ μ
. = 0
i = 1
while i < 100 :
    i = i + 2
    A = A + i
    
```

```

μ = 1+3+5+.....+99;
. = 1
i = 1
while i < 99 :
    i = i + 2
    A = A + i
    
```

```

. = 0
i = 1
while i <= 99 :
    A = A + i
    i = i + 2
    
```

```

. = 1
i = 1
while i <= 99 :
    A = A + i
    i = i + 2
    
```

2.

```

μ
"
μ μ
(1) ."
.
.
    
```

```

while < _1 > :
.....
-
    
```

3. μ : μ , μ μ μ
 μ : μ , μ μ μ
 .10
 . μ
 .1

```
=
while < 10 :
    print
    = + 1
```

4. μ μ μ :
 . μ μ μ ; μ μ
 . μ ; μ μ ; μ ;
 . μ μ μ ; μ ,

```
= 13
while <= 20 :
    print
    = + 2
print
```

5. μ μ μ , μ > 0:
 . μ
 . μ
 i. 2
 ii. 3.4
 iii. 7.8
 iv. 13.1
 . μ ;

```
K = input(" K:")
= 0
while <= :
    = + 1
if = :
    print
else:
    print - 1
```

6. = + z . μ μ μ x,y,z.
 i. x = 0, y = 8, z = 3
 ii. x = 7, y = 10, z = 5
 iii. x = -10, y = -5, z = -1
 iv. x = 10, y = 5, z = 2

```
= x
while <= y :
    = + z
```

7. μ μ μ ; μ μ ; μ μ ; 1+3+5+.....+99 μ S,

```
S = 0
= 1
while <= 99 :
    = + 2
    S = S +
```

```
S = 1
= 1
while <= 99 :
    = + 2
    S = S +
```

```
i = 0
S = 0
while i < 100 :
    S = S + (i + 1)
    i = i + 2
```

```
S = 0
i = 1
while i < 99 :
    i = i + 2
    S = S + i
```

8.

- | | |
|--|---|
| <pre> i = 3 while i >= 2 : i = i + 1 print i i = 3 while i < 6 : i = i + 1 print i i = 3 while i <= 10 : print i i = i + 2 </pre> | <pre> i = 3 while i <= 6 : i = i + 1 print i i = 3 while i <= 10 : i = i + 2 print i i = 3 while i <= 2 : i = i + 1 print i </pre> |
|--|---|

9.

- | | |
|---|--|
| <pre> i = 2 while i <= 5 : i = i + 3 i = i + i ** 2 print i y = 5 x = input("x:") while x <= 2 : y = y + 2 * (x - 1) ** 3 print y </pre> | <pre> y = 0 i = 1 while i <= 100 : x = input("x:") if x >= 3 : y = y + x ** 2 + x % 7 else: y = y + 2 * x print y </pre> |
|---|--|

10.

- | | |
|--|--|
| <pre> i = 1 while i <= 999 : S = 0 S = S + i i = i + 2 print S </pre> | <p style="text-align: center;">1+3+5+.....+999</p> <pre> S = 0 i = 1 while S <= 999 : i = i + 2 S = S + i print S </pre> |
|--|--|

11.

- | | |
|---|---|
| <pre> i = 1 while i <= 50 : i = i + 1 print i </pre> | <pre> i = 1 while i <= 50 : i = i + 1 print i </pre> |
|---|---|

```
i = _____
while _____ :
    if _____ :
        print _____
    i = _____
```

```
S = _____
i = 0
while _____ :
    _____ = input("_____:")
    S = _____ + X
    i = _____
MO = _____ / 50
print _____
```

12.

· μ μ μ

```
= + i
i = 8
print
i = i + 2
= 0
while i < 97 :
```

13.

μ μ μ μ
μ , μ μ a
120.
;

```
a= input(" a:")
b = 1
while a // 10 > 0 :
    a = a // 10
    if a % 2 == 1 :
        b = b + 3
    else:
        b = b + a
print b
```

14.

μ , =24 L=40. μ μ
μ μ , Y
μ μ
μ .

```
X = K
Y = L
if X < Y :
    TEMP = X
    X = Y
    Y = TEMP
while Y != 0 :
    TEMP = Y
    Y = X % Y
    X = TEMP
print X, Y
Y = (K * L) // X
print X, Y
```

15.

μ μ μ , μ K, L, M

μ	K	L	M
μ			
1			
2			
3			
4			
5			

· μ ; μ μ L μ
· μ μ ;

```
K = 35
L = 17
M = 0
while L > 0 :
    if L % 2 == 1 :
        M = M + K
        K = K * 2
        L = L // 2
print M
```

16. μ μ μ μ μ .

```

. b = True
  x = 10
  while x > 1 and b = True :
    if x % 2 == 0 :
      b = False
      x = x // 2
    if b = False and x % 2 == 1 :
      b = True
      x = x + 1
  print x
    
```

```

. b = 10
  while >= 0 :
    a = b + 3
    if a < 8 :
      g = a - b
    else:
      g = a + b
    print g
    b = b - 4
    
```

```

. = 1
  while < 5 :
    = X + 2
    = 3 * - 4
    C = B - A + 4
    if A > B :
      if A > C :
        MAX = A
      else:
        MAX = C
    else:
      if B > C :
        MAX = B
      else:
        MAX = C
  print X, A, B, C, MAX
  X = X + 2
    
```

```

. A = 1
  B = 1
  N = 0
  M = 2
  while B < 6 :
    X = A + B
    if X % 2 == 0 :
      N = N + 1
    else:
      M = M + 1
  A = B
  B = X
  print N, M, B
  print X
    
```

17.

i.

```

;
.2 .0
.1 .
    
```

```

for i in range(1,2,3):
  print " μ "
    
```

ii.

```

μ μ
.0 .100
.500 .400
    
```

```

= 0
for i in range(10,20,10):
  A = A + i ** 2
  print A
    
```

iii.

```

μ μ μ μ μ ,
μ μ A=0 B=3,
. = 11 . = 9
. = 8 . = 2
    
```

```

= 0
B = 0
for i in range(Z, 5, -2):
  if i %2 == 0 :
    = A + 1
  else:
    B = B + 1
    
```

18. μ μ μ , :
 . μ μ
 μ 10.
 sum = _____
 for _____ in range(_____, _____, _____):
 sum = _____ + i ** 2
 print sum

. μ :
 -2, -4, -6, ..., -98, -100

for i in range(____):
 if _____:
 print _____
 else:
 print _____

for i in range(1,50):
 print _____

19. ;
 . for i in range(2,2,1000):
 . for i in range(10,10,-200):

20. μ for i in range(10): ;
 . for i in range(0,9):
 . for i in range(10,100,10):
 . for i in range(12,-12,-2):

. for i in range(0,10,-1):
 . for i in range(0,100,10):
 . for i in range(-50, 50, 10):

21. μ , μ μ μ
 μ :
 . 10
 . μ

for i in range(10,0,A):
 print i

22. μ μ μ :
 . μ
 . μ
 . μ

S = 0
 for i in range(100,999,2):
 S = S + i

23. μ μ μ μ
 μ [1, 100];

. sum = 0
 for i in range(1,100):
 sum = sum + i

. sum = 0
 for i in range(1,100,2):
 sum = sum + i

- for i in range(1,100,2):
 sum = 0
 sum = sum + i
- for i in range(1,100,2):
 sum = sum + i
24. μ μ ; μ μ S = 0
 for i in range(1,7,2):
 Y = ** 2 - 5
 = + 2
 print , Y
25. μ μ μ 1, 2 .
- 1 = 5, 2 = 0, = -2 · 1 = 5, 2 = 1, = 2
 · 1 = 5, 2 = 5, = 1 · 1 = 5, 2 = 6.5, = 0.5
- for i in range(1 , 2 ,):
 -1
26. μ μ μ , . print
- = 2, = 5, = 1 · = -1, = 1, = 0.5
 · = -7, = -6, = -5 · = 5, = 5, = 1
- for i in range(, ,):
 print "
27. μ μ μ μ ; f = 2
 for k in range(16,2,-3):
 print k-f
 f = f + 1
28. μ μ S (μ) μ ;
- i. for i in range(1,10):
 S = 0
 S = S + i
- ii. S = 0
 = 1
 for i in range(110,100,-1):
 S = S +
 = + 1
- iii. S = 0
 for i in range(10,99,2):
 S = S + (+ 1)
29. μ μ μ .
- i. = 2
 for i in range(-8,8,2):
 = + 1 / i
 print
- ii. b=input(" b:")
 for i in range(1,5,b):
 = + i ** 2
30. μ μ μ μ μ : 1 + 2 + 3 + ... + 100. ; S = 0
 for i in range(100):
 S = i
 print S

31.
$$\mu : 1 + 3 + 5 + 7 + \dots + 100;$$
 ;
- S = 0
for in range(1,99,2):
S = S + 2
32.
$$\mu \mu \mu ;$$
- for a in range(1,4):
P = 2
for b in range(1,4):
P = P + P * a // b
print P
- P = 2
for a in range(1,4):
for b in range(1,4):
P = P + P * a // b
print P
33.
$$\mu \mu \mu .$$
- sum = sum + i
for i in range(100,999):
print sum
sum = 0
34.
$$\mu \mu \mu \mu \mu \mu$$

$$1 \quad 1 = 1, 1 \quad 2 = 2 \quad . \quad 10 \quad \mu \quad :$$
- for i in range(____, ____):
for j in range(____, ____):
print _____, "X", _____, "=", _____
35.
$$\mu \mu ; \mu \mu$$
1. while $\mu \mu$.
2. while μ .
3. = 9, while $\mu \mu$.
4. = 8, while $\mu \mu$.
5. = 2, print X 4 .
6. print A , > 8.
7. = 3, = + 1 4 .
8. = 1, = + 1 4 .
9. = 0, $\mu \mu$, μ
9.
10. while
>8.
- A = 0
X = input("")
while X <= 8 :
if X % 2 == 0:
A = A + 1
print X
X = X + 3
print A