1) Create a loop table show the values for loop count, value of x, and output during each iteration.

for (var x = 0; x <= 17; x = x + 2) {

console.log(2 \* x + 7);

}

loop count value of x output

1 0 7

2 2 11

3 4 15

4 6 19

5 8 23

6 10 27

7 12 31

8 14 35

9 16 39

x = 0

2 \* x + 7

2 \* 0 + 7

0 + 7 = 7

x = x+ 2

x = 0 + 2 = 2

x = 2

2 \* x + 7

2 \* 2 + 7

4 + 7 = 11

x = x + 2

x = 2 + 2

x = 4

2 \* x + 7

2 \* 4 + 7

8 + 7 = 15

x = x + 2

x = 4 + 2

x = 6

2 \* x + 7

2 \* 6 + 7

12 + 7 = 19

x = x + 2

x = 6 +2

X = 8

2 \* x + 7

2 \* 8 +7

16 + 7

23

x = x + 2

x = 8 +2

X = 10

2 \* x + 7

2 \* 10 +7

20 + 7

27

x = x + 2

x = 10 +2

X = 12

2 \* x + 7

2 \* 12 +7

24 + 7

31

x = x + 2

x = 12 +2

X = 14

2 \* x + 7

2 \* 14 +7

28 + 7

35

x = x + 2

x = 14 +2

X = 16

2 \* x + 7

2 \* 16 +7

32 + 7

39

2) Create a loop table show the values for loop count, value of index, value of s1, value of s2, and output during each iteration.

// check out page 15 in Head First JavaScript for

// info about the substr() function below

var alpha = 'mpeuorwr';

var s1 = '';

var s2 = '';

for (var index = 0; index < alpha.length; index++) {

if (index % 2 == 0) {

s1 = s1 + alpha.substr(index, 1);

} else {

s2 = s2 + alpha.substr(index, 1);

}

}

console.log(s1 + s2);

loop count |value of index| s1 | s2 | output

1 0 m n/a m

2 1 - p p

3 2 m + e - me

4 3 - p + u pu

5 4 m + e + o - meo

6 5 - p + u + r pur

7 6 m + e + o + w - meow

8 7 - p + u + r + r purr

0 % 2 = 0

s1 = '' + alpha.subst(0,1)

s1 = 'm'

index++ = 1

1 % 2 = 1

s2 = '' + alpha.subst(1,1)

s2 = 'p'

index++ = 2

2 % 2 = 0

s1 = 'm' + alpha.subst(2,1)

s1 = 'm' + e

s1 = 'me'

index++ = 3

3 % 2 = 1

s2 = 'p' + alpha.substr(3,1)

s2 = 'p' + u

s2 = 'pu'

index++ = 4

4 % 2 = 0

s1 = 'me' + a.s(4,1)

s1 = 'meo'

index++ = 5

5 % 2 = 1

s2 = 'pu' + a.s(5,1)

s2 = 'pur'

index++ = 6

6 % 2 = 0

s1 = 'meo' + a.s(6,1)

s1 = 'meow'

index++ = 7

7 % 2 = 1

s2 = 'pur' + a.s(7,1)

s2 = 'purr'

**console.log(s1 + s2); = meowpurr**