

### Exercises 1

1. Create a variable named counter and set it equal to 0.
2. Create a while loop with the condition counter < 10.
3. The loop body should print out “counter is X” (where X is replaced with the value of counter) and then increment counter by 1.
- 4.

### Exercises 2

1. Write a for loop starting at 1 and ending with 10 inclusive.
2. Use the loop to print only the square of the odd number.

### Exercises 3

1. Write a function named youAreWonderful, with a string parameter called name. It should return a string using name, and say something like “You’re wonderful, Bob.”
2. Add another int parameter to that function called numberPeople so that the function returns something like “You’re wonderful, Bob. 10 people think so.”
3. Make both inputs named parameters. Make name required and set numberPeople to have a default of 30..

Exercise 4:

Start with the following list of numbers:

```
const numbers = [1, 2, 4, 7];
```

Print the square of each number: 1, 4, 16 and 49.

1. First, use a for loop.
2. Solve the problem again using a for-in loop.


Exercise 5:

Write a code to combine list1 and only the even numbers of list2. Print the output.

```
list1=[12, 4,5,8,1]
```

```
list2=[2, 3,4,5,6,7]
```

EX.1

 DartPad

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New

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Samples

Install SDK


```
1 void main() {
2   int counter=0;
3   while (counter<10)
4   {
5     print ('counter is $counter');
6     counter++;
7   }
8 }
9 }
```

☰

▶ Run

counter is 0  
counter is 1  
counter is 2  
counter is 3  
counter is 4  
counter is 5  
counter is 6  
counter is 7  
counter is 8  
counter is 9

EX.2

 DartPad

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New

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Samples

Install SDK


```
1
2 void main() {
3   for(int i=1;i<=10;i++)
4     if(i%2!=0){print('square of $i is : ${i*i}');}}
5
6
```

☰

▶ Run

square of 1 is : 1  
square of 3 is : 9  
square of 5 is : 25  
square of 7 is : 49  
square of 9 is : 81

EX 3.1

 DartPad

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New

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Samples


Install SDK


```
1
2 void main() {
3
4   print(youarewonderful('bob'));
5 }
6 String youarewonderful (String name)
7 {return 'you are wonderful $name';}
8
9
```


☰

▶ Run

you are wonderful bob

 DartPad

 New

 Samples

EX.3.2

1

2

3

4

5


6


7

8


9


```
void main() {  
    print(youarewonderful('bob',10));  
}  
String youarewonderful (String name,int numberpeople)  
{return 'you are wonderful $name , $numberpeople people think  
so';}
```




 Run

you are wonderful bob , 10 people think so

 DartPad

 New

 Samples

EX.3.3

1

2

3

4

5


6


7

8

9

```
void main() {  
    print(youarewonderful(name:'bob'));  
}  
String youarewonderful ({required String name,int  
numberpeople=30})  
{return 'you are wonderful $name , $numberpeople people think  
so';}
```



 Run

you are wonderful bob , 30 people think

Ex. 4

```

1
2 void main() {
3
4   const numbers=[1,2,4,7];
5   for(int i=0;i<numbers.length;i++)
6   {final item=numbers[i];
7     print(item*item);}
8   print('-----');
9   for(final item in numbers)
10    {print(item*item);}
11 }
12
13

```



Run

```

1
4
16
49
-----
1
4
16
49

```

Ex. 5

```

1 void main() {
2   List<int> list1 = [12, 4, 5, 8, 1];
3   List<int> list2 = [2, 3, 4, 5, 6, 7];
4   List<int> result = [...list1, ...list2.where((number) => number.isEven)];
5   print(result);
6 }
7
8

```



Run

[12, 4, 5, 8, 1, 2, 4, 6, 7]