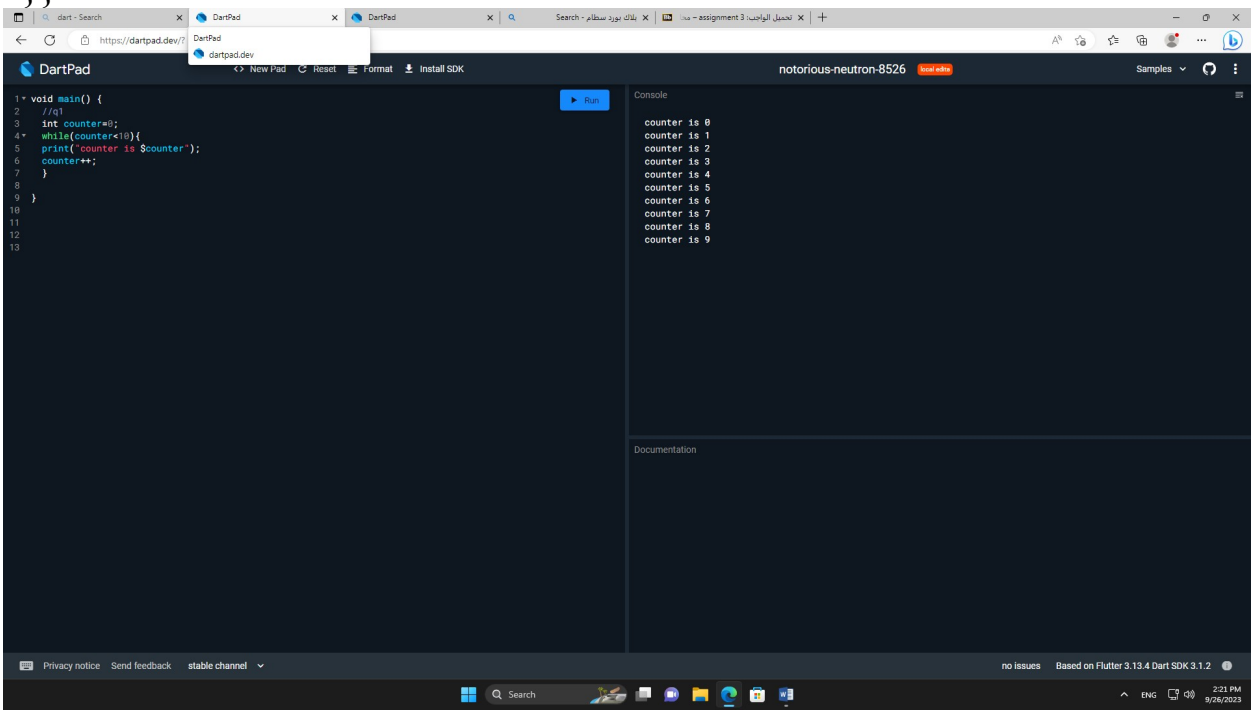
Exercises 1

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.

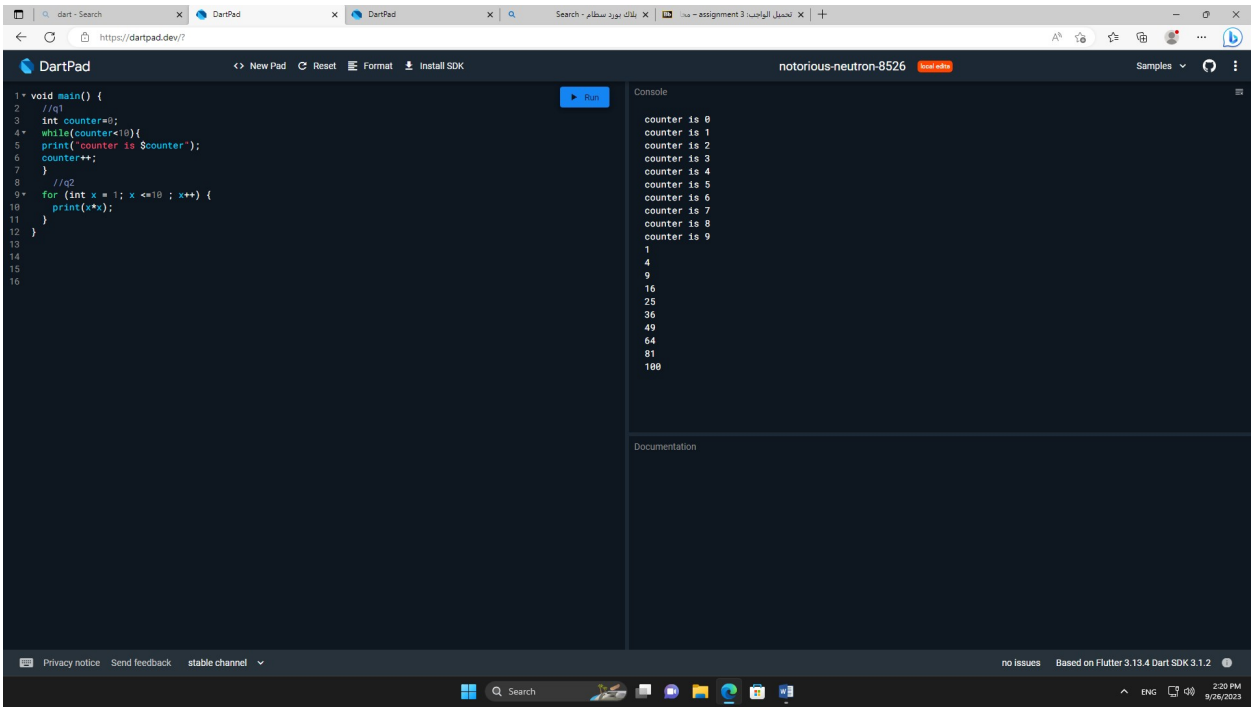
```
void main() {

  int counter=0;
  while(counter<10){
  print("counter is $counter");
  counter++;
  }}
```



Exercises 2

1. Write a for loop starting at 1 and ending with 10 inclusive.
2. Print the square of each number.

```
for (int x = 1; x <=10 ; x++) {
  print(x*x);
}
```

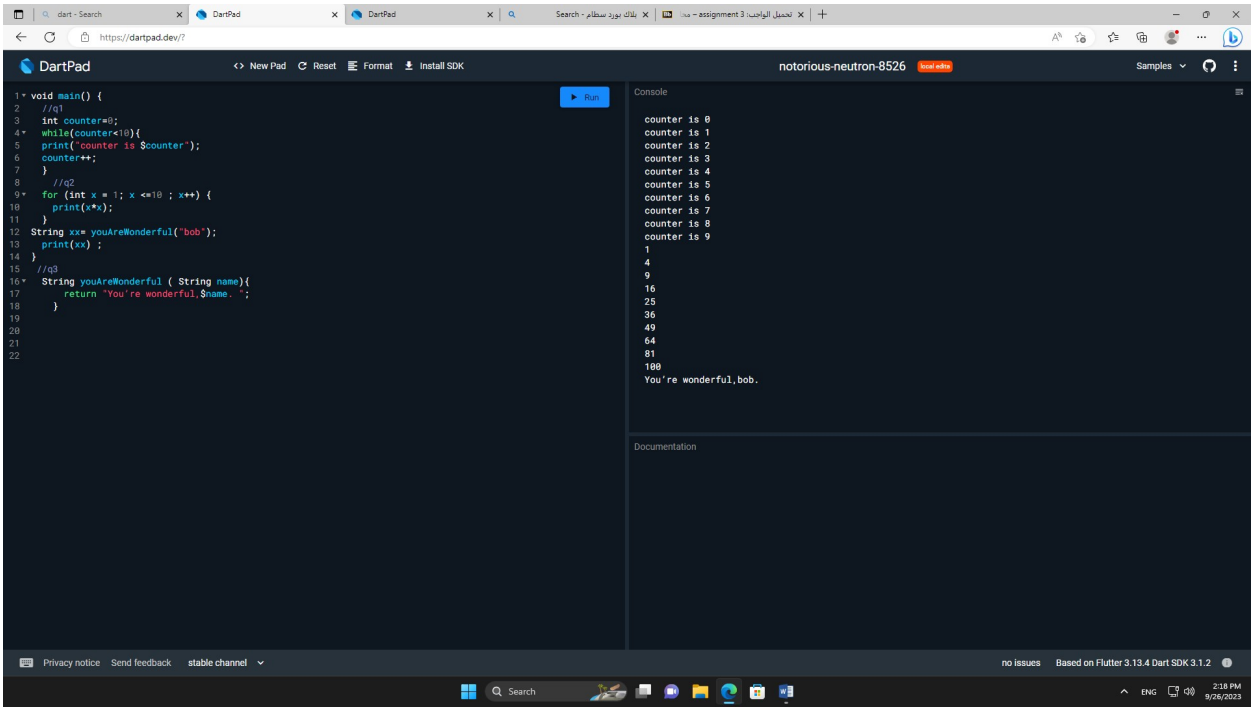



```
void main() {
  //q1
  int counter=0;
  while(counter<10){
  print("counter is $counter");
  counter++;
  }
   //q2
  for (int x = 1; x <=10 ; x++) {
    print(x*x);
  }
}
```

```
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
1
4
9
16
25
36
49
64
81
100
```

Exercises 3

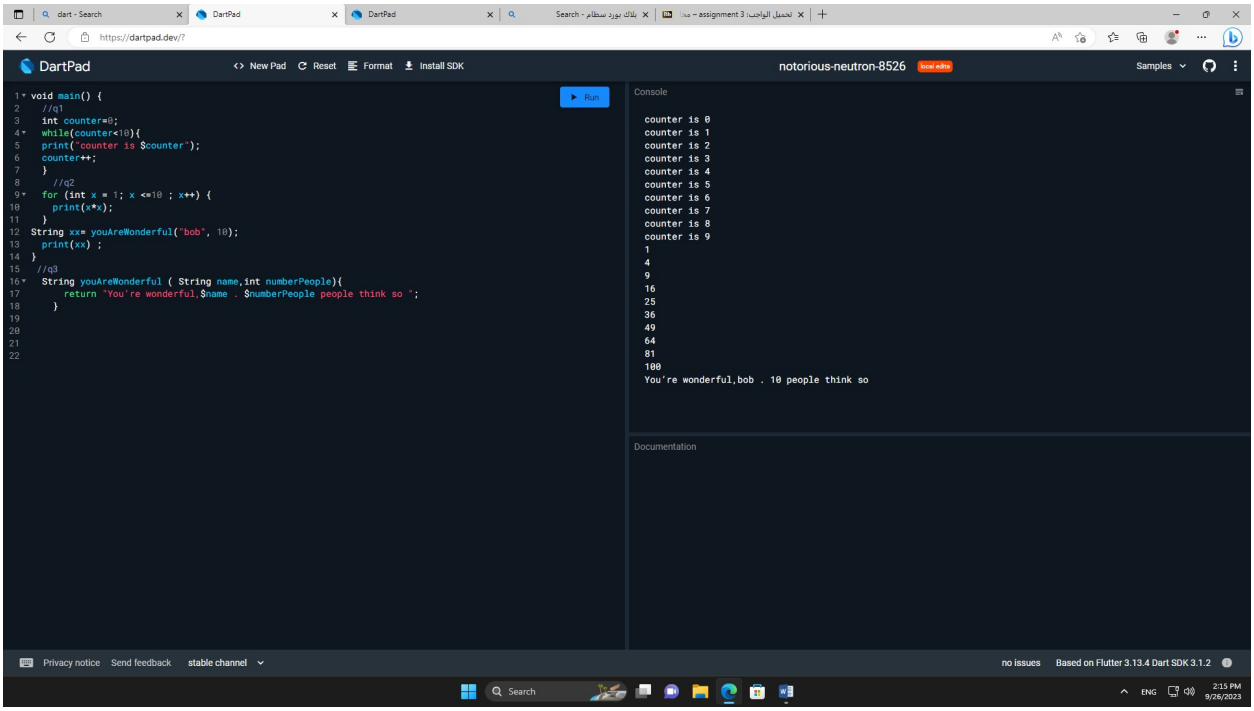
1. Write a function named youAreWonderful, with a string parameter called name.
It should return a string using name, and say something like “You’re wonderful,
Bob.”




```
void main() {
  //q1
  int counter=0;
  while(counter<10){
  print("counter is $counter");
  counter++;
  }
   //q2
  for (int x = 1; x <=10 ; x++) {
    print(x*x);
  }
String xx= youAreWonderful("bob");
  print(xx) ;
}
 //q3
  String youAreWonderful ( String name){
      return "You're wonderful,$name. ";
   }
```

```
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
1
4
9
16
25
36
49
64
81
100
You're wonderful,bob.
```

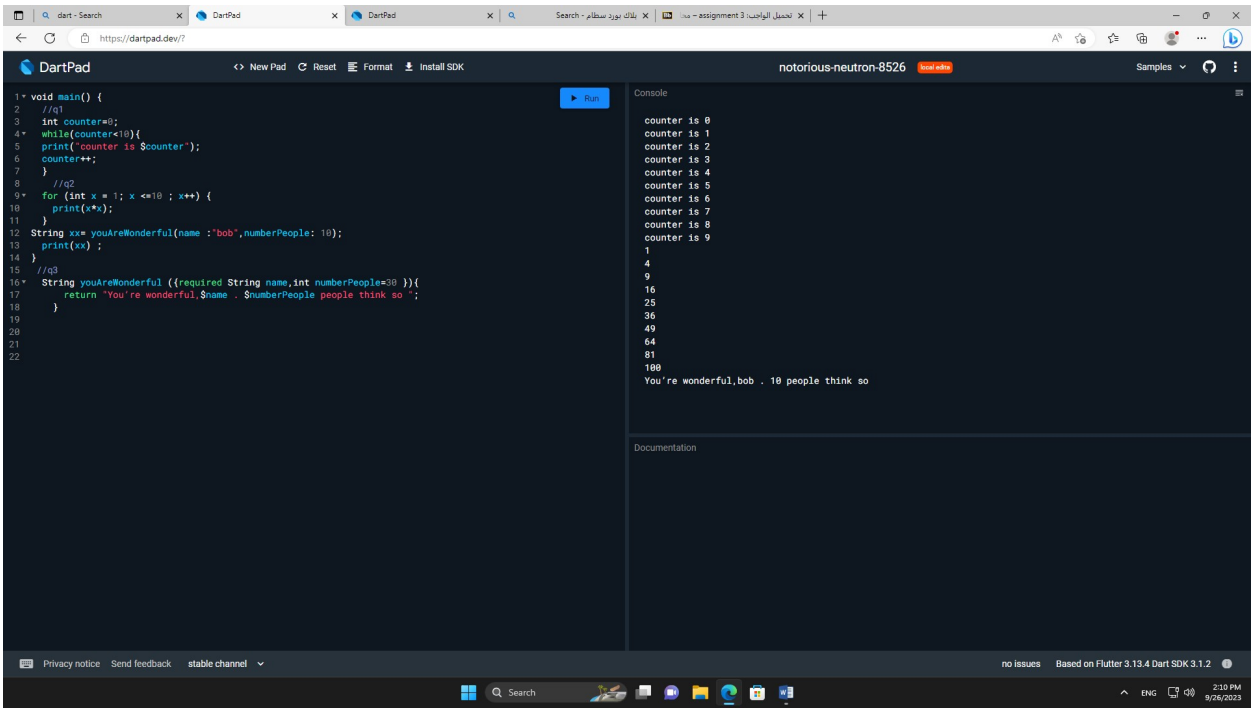
2. Add another int parameter to that function called numberPeople so that the
function returns something like “You’re wonderful, Bob. 10 people think so.”




```
void main() {
  //q1
  int counter=0;
  while(counter<10){
  print("counter is $counter");
  counter++;
  }
    //q2
  for (int x = 1; x <=10 ; x++) {
    print(x*x);
  }
 String xx= youAreWonderful("bob", 10);
  print(xx) ;
}
 //q3
  String youAreWonderful ( String name,int numberPeople){
      return "You're wonderful,$name . $numberPeople people think so ";
    }
```

```
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
1
4
9
16
25
36
49
64
81
100
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..




```
void main() {
  //q1
  int counter=0;
  while(counter<10){
  print("counter is $counter");
  counter++;
  }
    //q2
  for (int x = 1; x <=10 ; x++) {
    print(x*x);
  }
 String xx= youAreWonderful(name :"bob",numberPeople: 10);
  print(xx) ;
}
 //q3
  String youAreWonderful ({required String name,int numberPeople=30 }){
      return "You're wonderful,$name . $numberPeople people think so ";
    }
```

```
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
1
4
9
16
25
36
49
64
81
100
You're wonderful,bob . 10 people think so
```