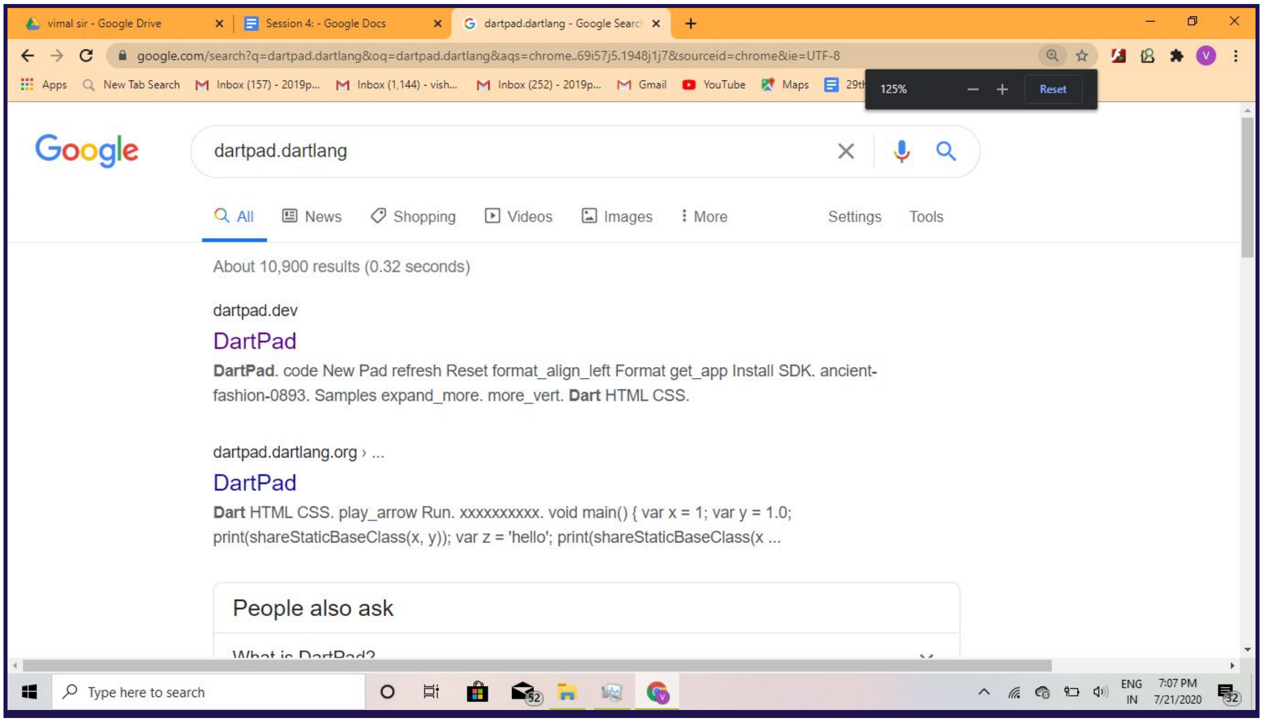
Session 4:



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DartPad

Dart HTML CSS. play_arrow Run. xxxxxxxxxx. void main() { var x = 1; var y = 1.0; print(shareStaticBaseClass(x, y)); var z = 'hello'; print(shareStaticBaseClass(x ...

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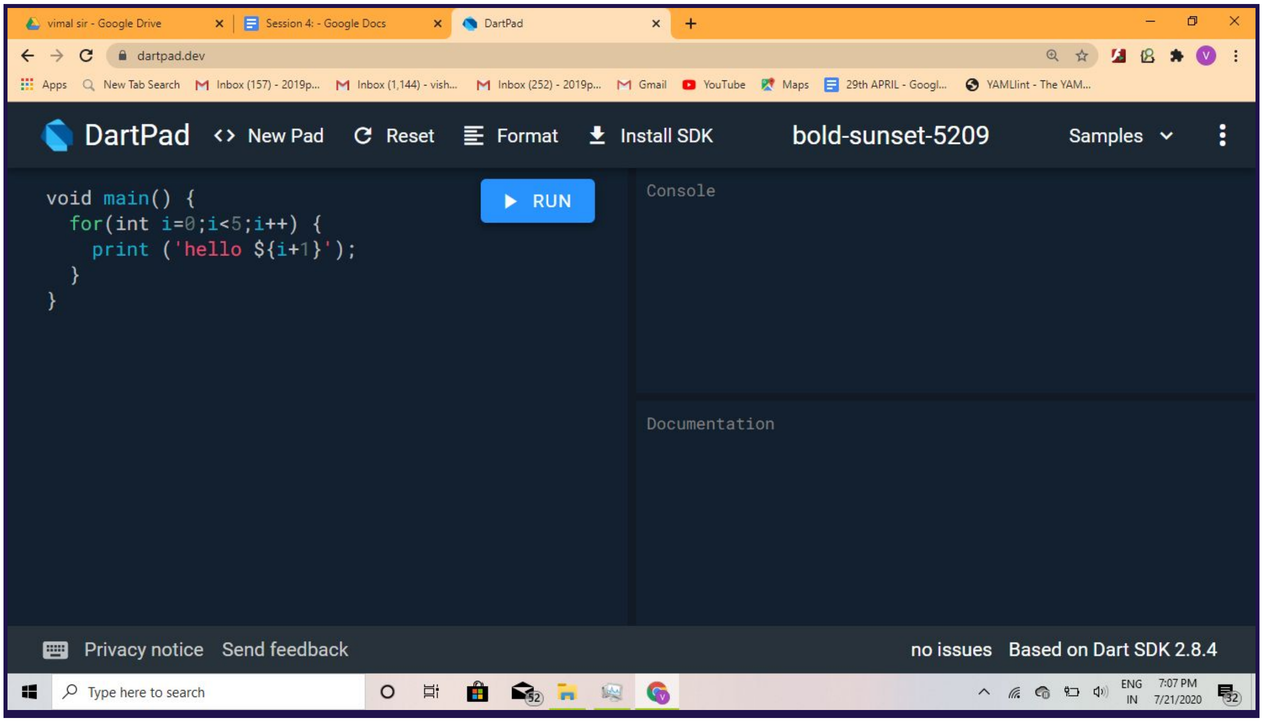
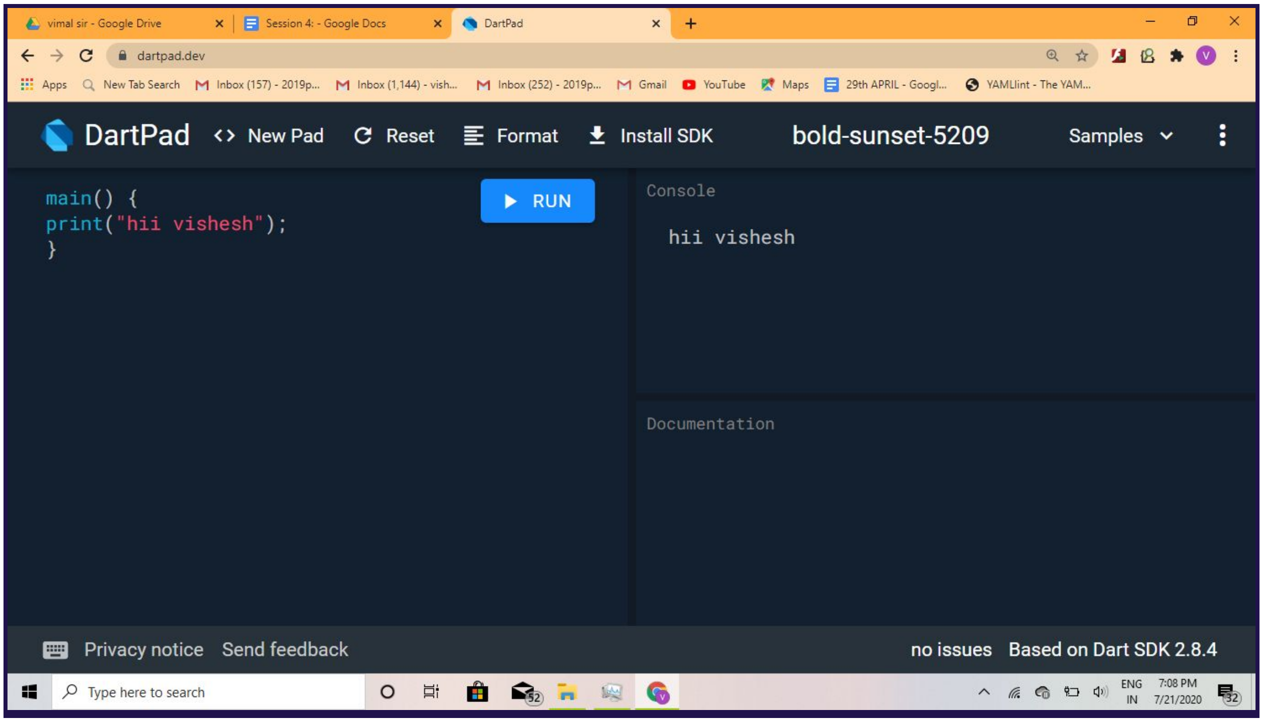
What is DartPad?

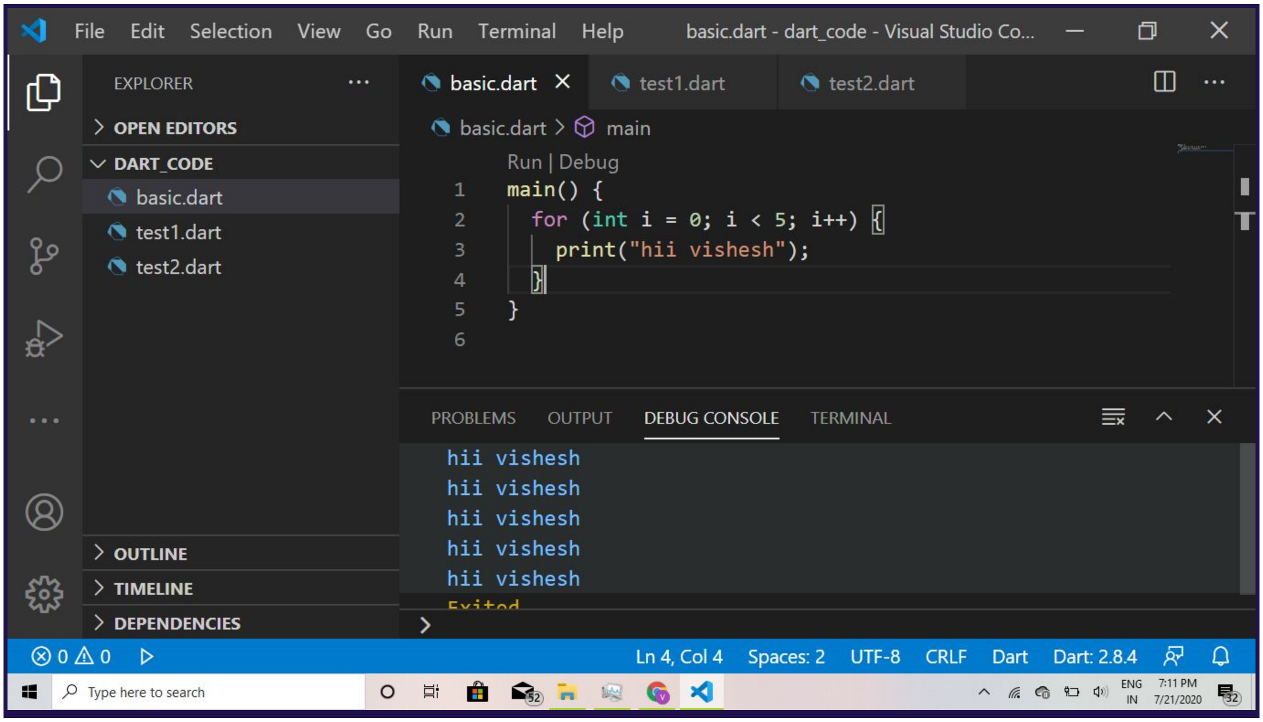


```
void main() {
  for(int i=0;i<5;i++) {
    print ('hello ${i+1}');
  }
}
```



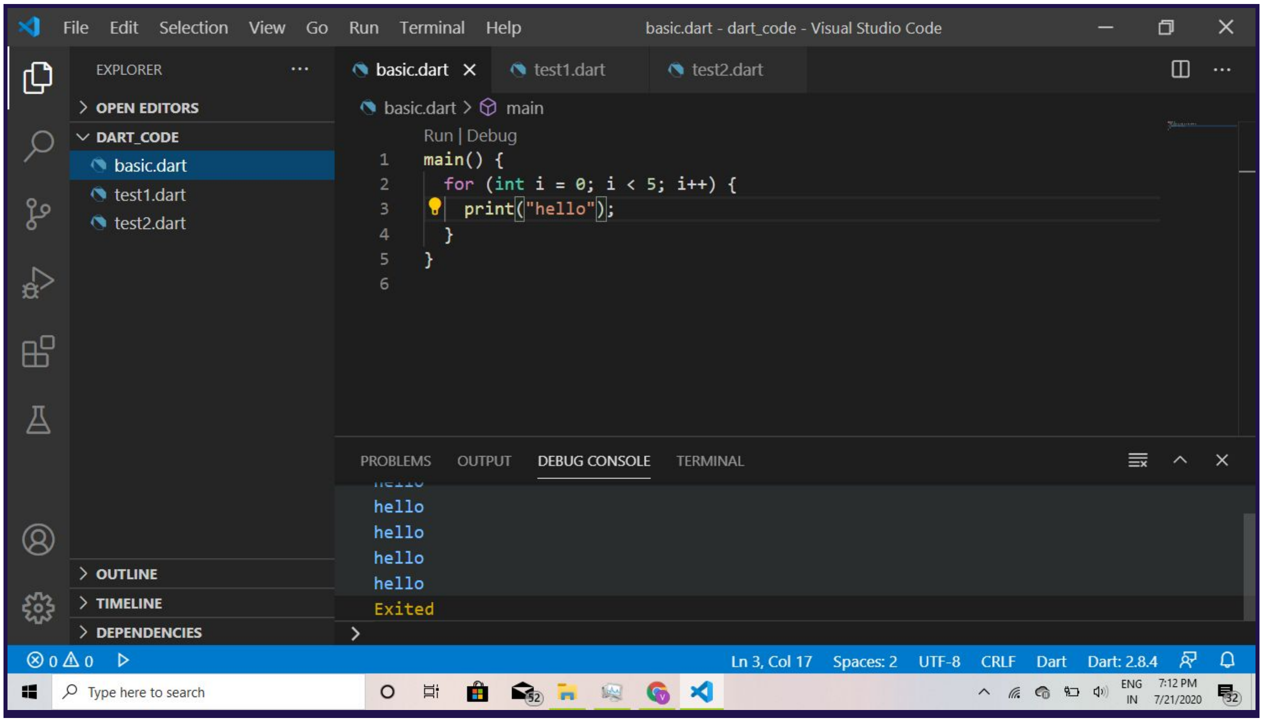
```
main() {
print("hii vishesh");
}
```

```
hii vishesh
```



```
main() {
  for (int i = 0; i < 5; i++) {
    print("hii vishesh");
  }
}
```

```
hii vishesh
hii vishesh
hii vishesh
hii vishesh
hii vishesh
Exited
```

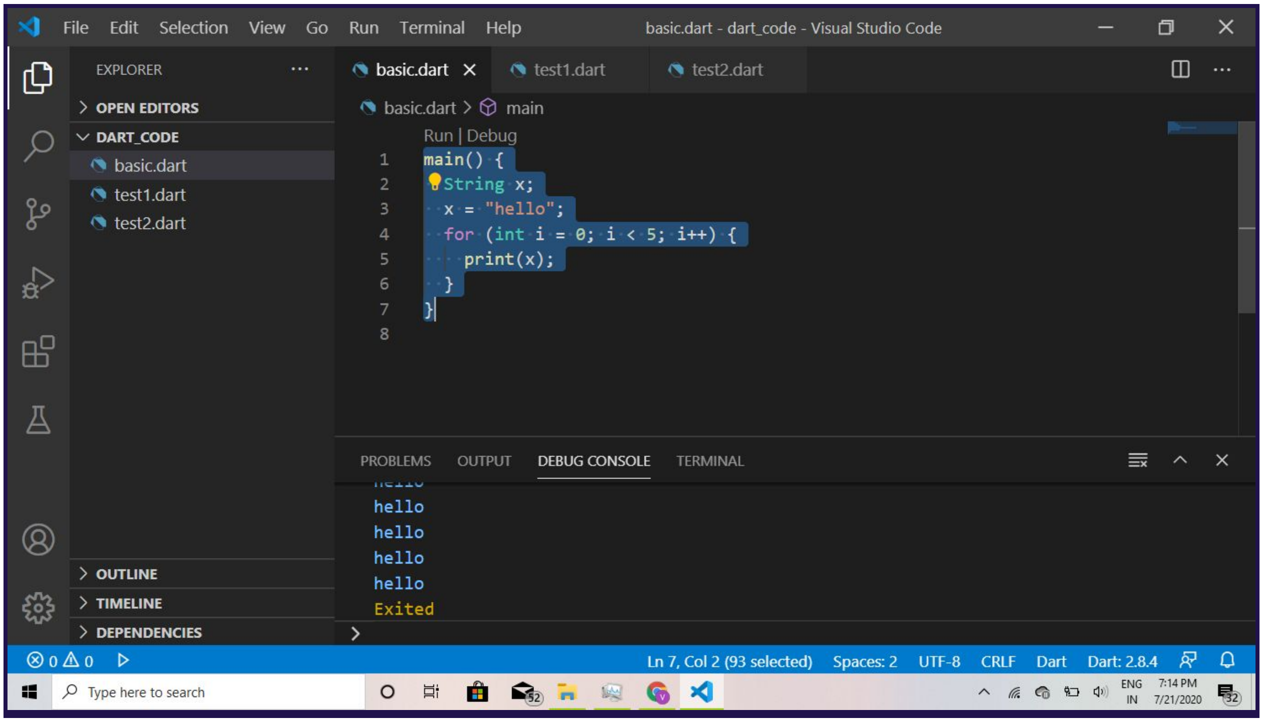


```
main() {
  for (int i = 0; i < 5; i++) {
    print("hello");
  }
}
```

```
hello
hello
hello
hello
hello
Exited
```

in programming world box/bucket is known as variables

```
main() {
  String x;
  x = "hello";
  for (int i = 0; i < 5; i++) {
    print(x);
  }
}
```



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test2.dart
OUTLINE
TIMELINE
DEPENDENCIES
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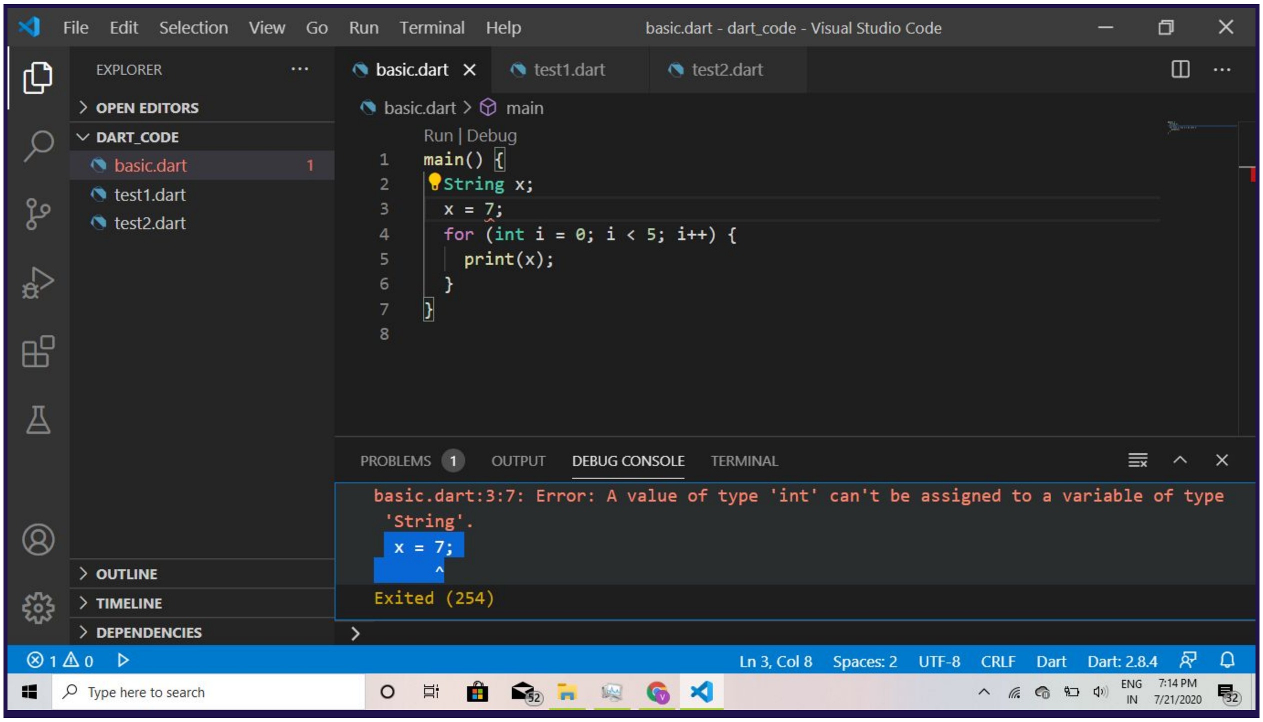
7:14 PM 7/21/2020

```
main() {
  String x;
  x = "hello";
  for (int i = 0; i < 5; i++) {
    print(x);
  }
}
```

```
hello
hello
hello
hello
Exited
```



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EXPLORER
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DART_CODE
basic.dart 1
test1.dart
test2.dart
OUTLINE
TIMELINE
DEPENDENCIES
basic.dart > main
Run | Debug
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL
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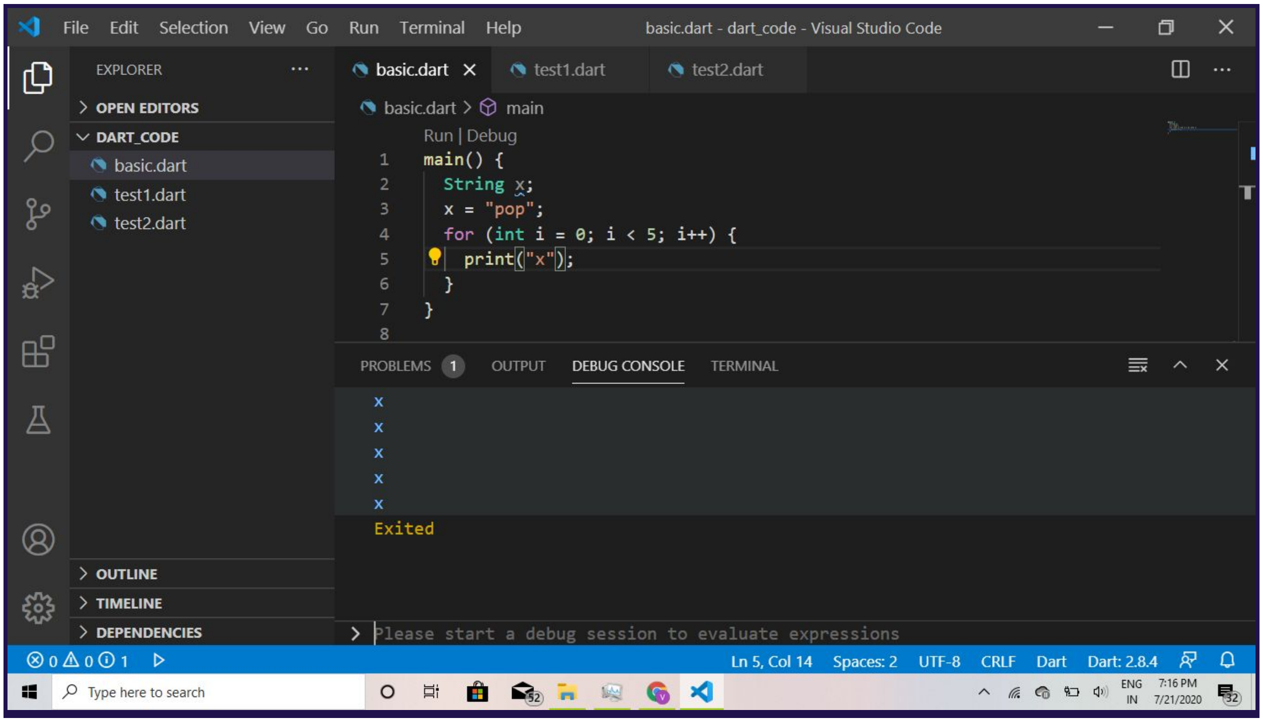
```
main() {
  String x;
  x = 7;
  for (int i = 0; i < 5; i++) {
    print(x);
  }
}
```

```
basic.dart:3:7: Error: A value of type 'int' can't be assigned to a variable of type
 'String'.
  x = 7;
      ^
Exited (254)
```

data types:

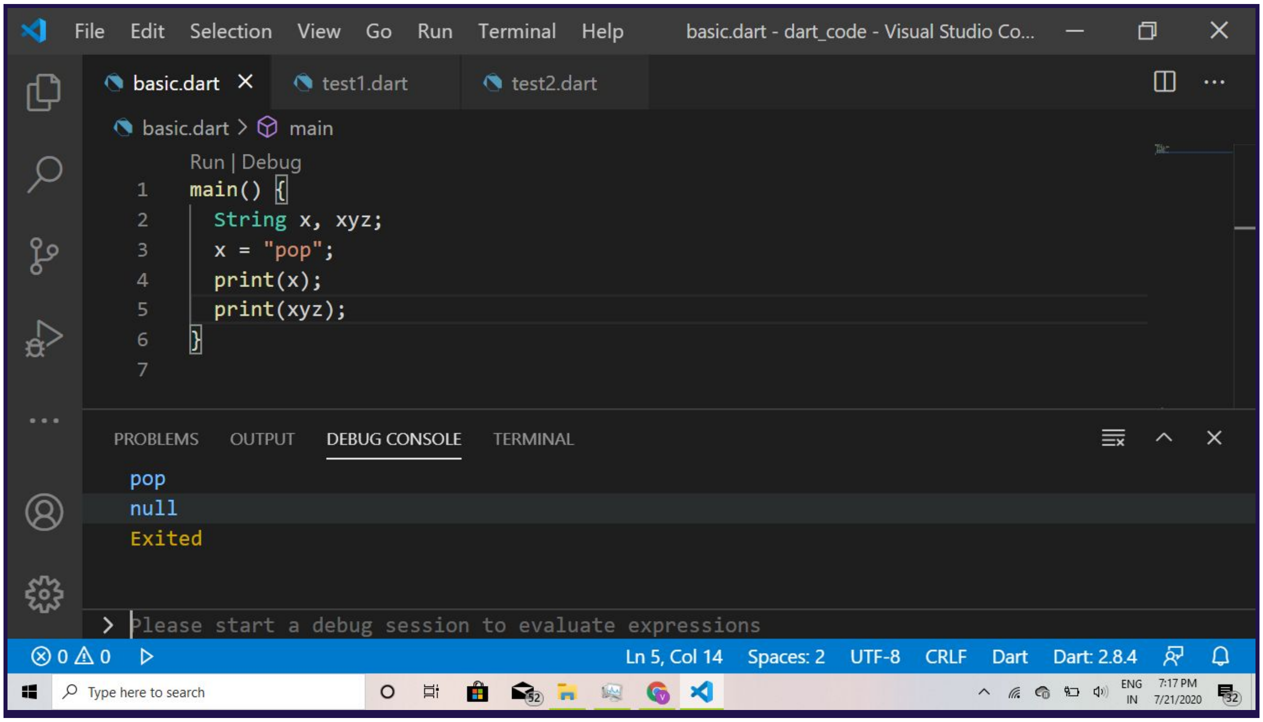
int(number) , float(decimal or real number) , string(eg. ‘hii’) etc…..



```
main() {
  String x;
  x = "pop";
  for (int i = 0; i < 5; i++) {
    print("x");
  }
}
```

```
x
x
x
x
x
Exited
```

```
> Please start a debug session to evaluate expressions
```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basic.dart
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test2.dart
basic.dart > main
Run | Debug
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OUTPUT
DEBUG CONSOLE
TERMINAL
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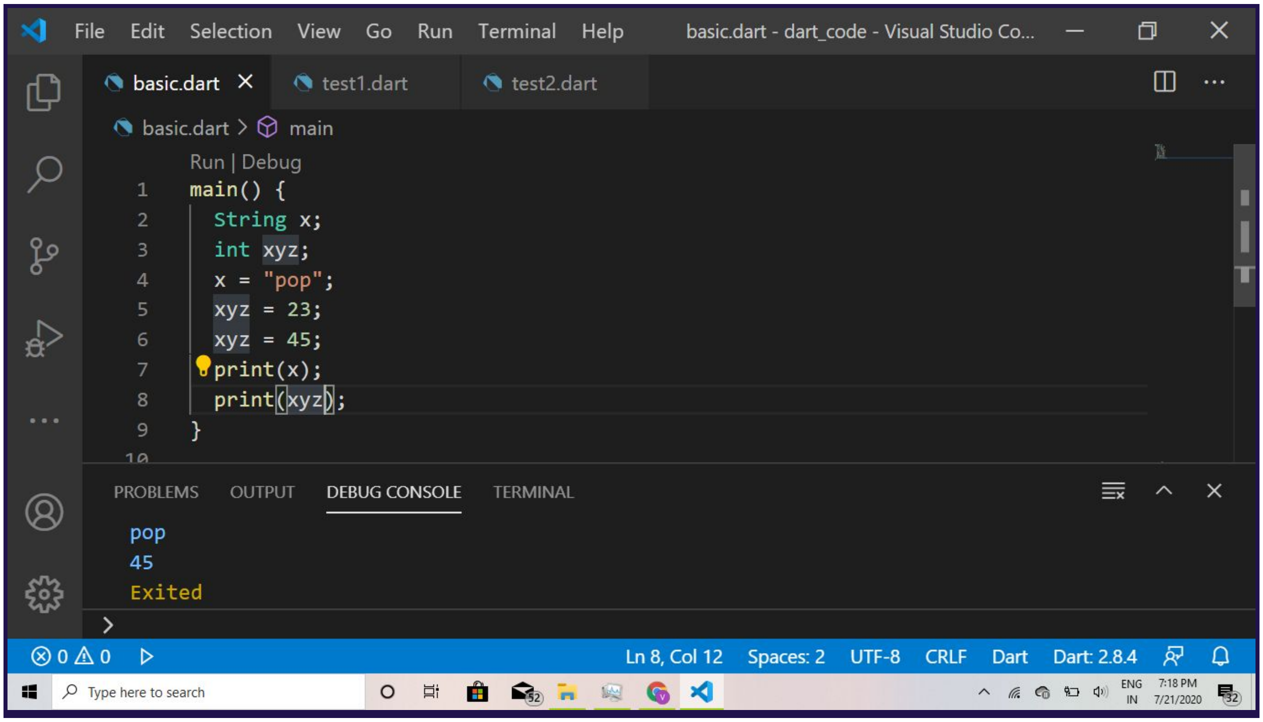
Type here to search
7:17 PM 7/21/2020

```
main() {
  String x, xyz;
  x = "pop";
  print(x);
  print(xyz);
}
```

```
pop
null
Exited
```

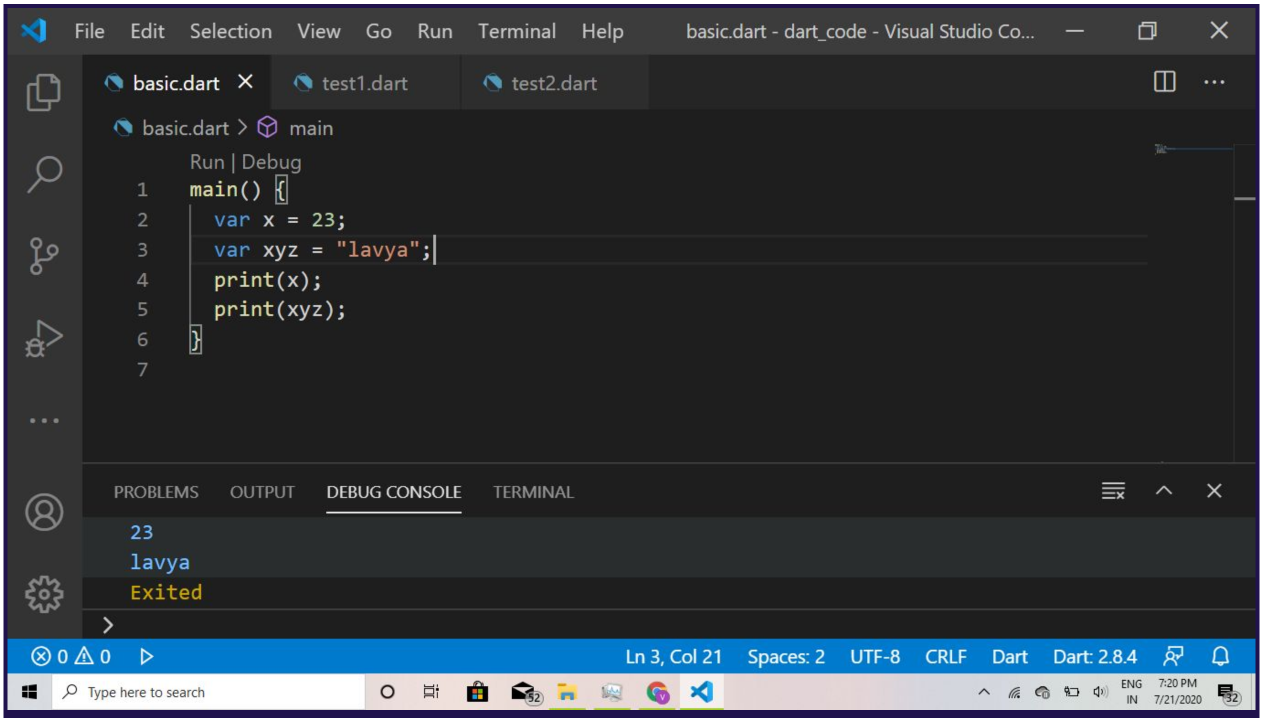
```
> Please start a debug session to evaluate expressions
```



```
main() {
  String x;
  int xyz;
  x = "pop";
  xyz = 23;
  xyz = 45;
  print(x);
  print(xyz);
}
```

```
pop
45
Exited
```

u can’t store a string in int data type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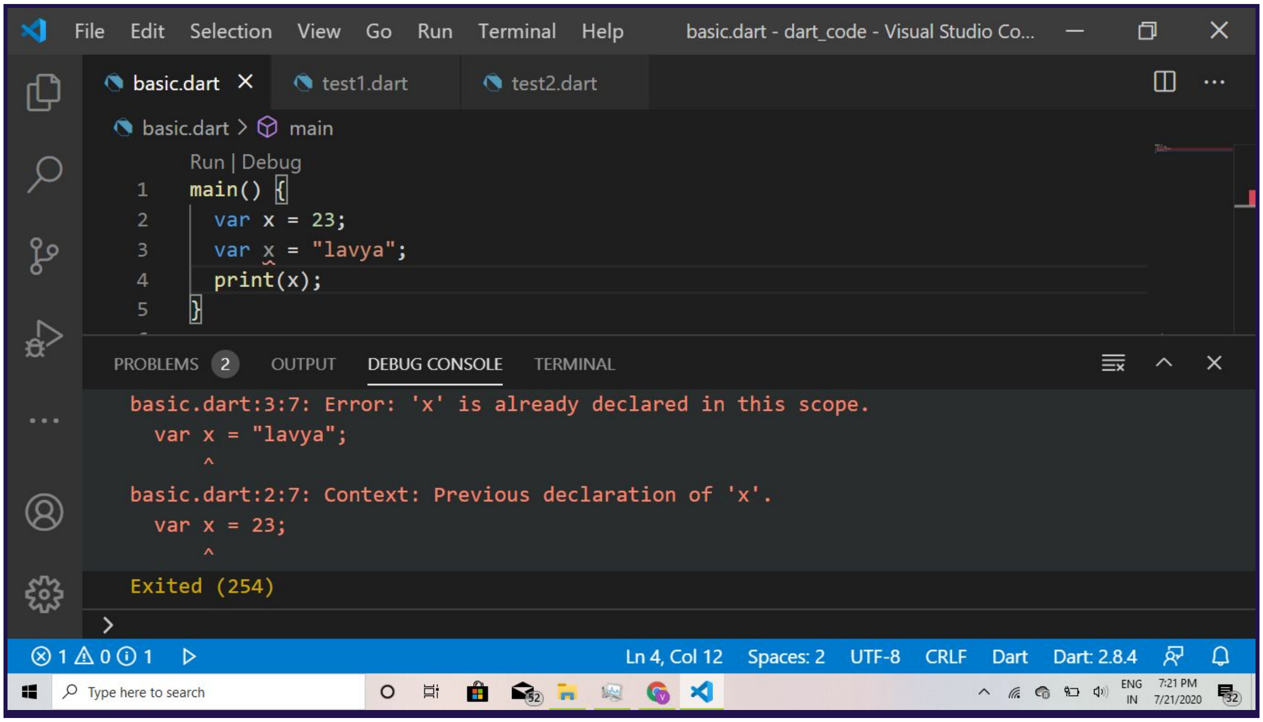
basic.dart
test1.dart
test2.dart
basic.dart > main
Run | Debug
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Ln 3, Col 21 Spaces: 2 UTF-8 CRLF Dart Dart: 2.8.4
Type here to search
7:20 PM
7/21/2020

```dart
main() {
  var x = 23;
  var xyz = "lavya";
  print(x);
  print(xyz);
}
```

```
23
lavya
Exited
```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OUTPUT
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TERMINAL
Ln 4, Col 12 Spaces: 2 UTF-8 CRLF Dart Dart: 2.8.4
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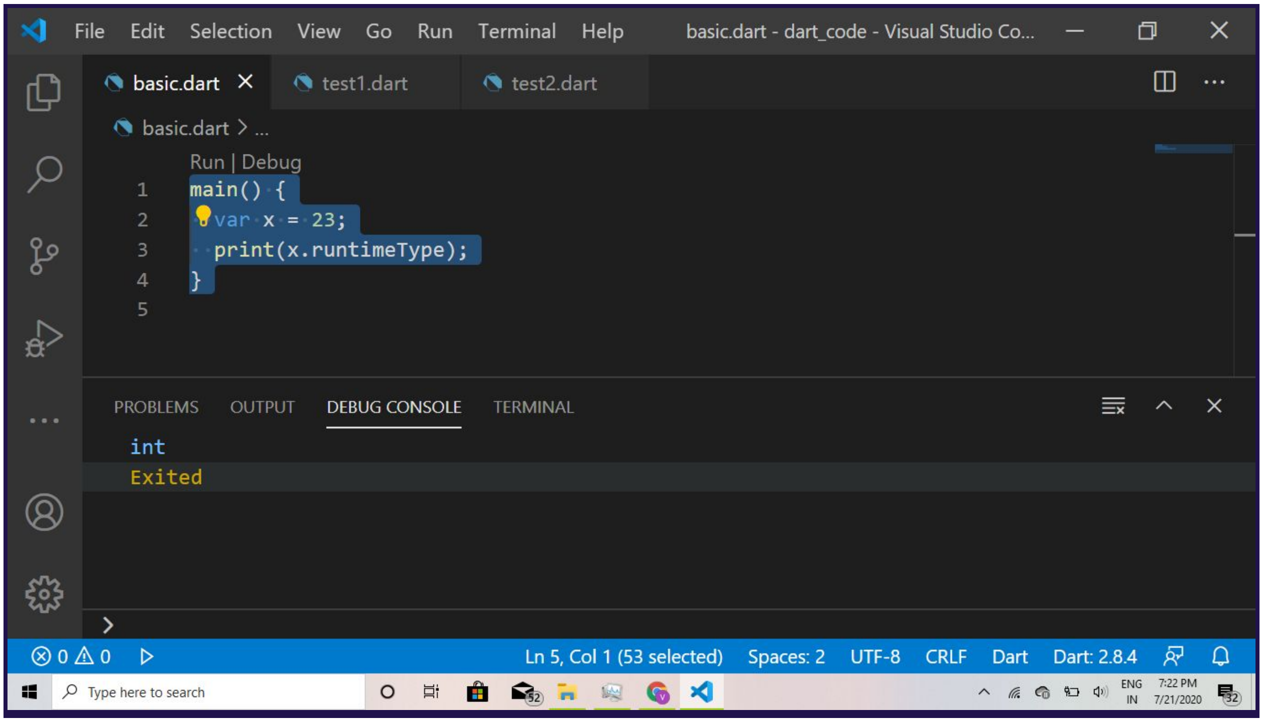
7:21 PM
7/21/2020

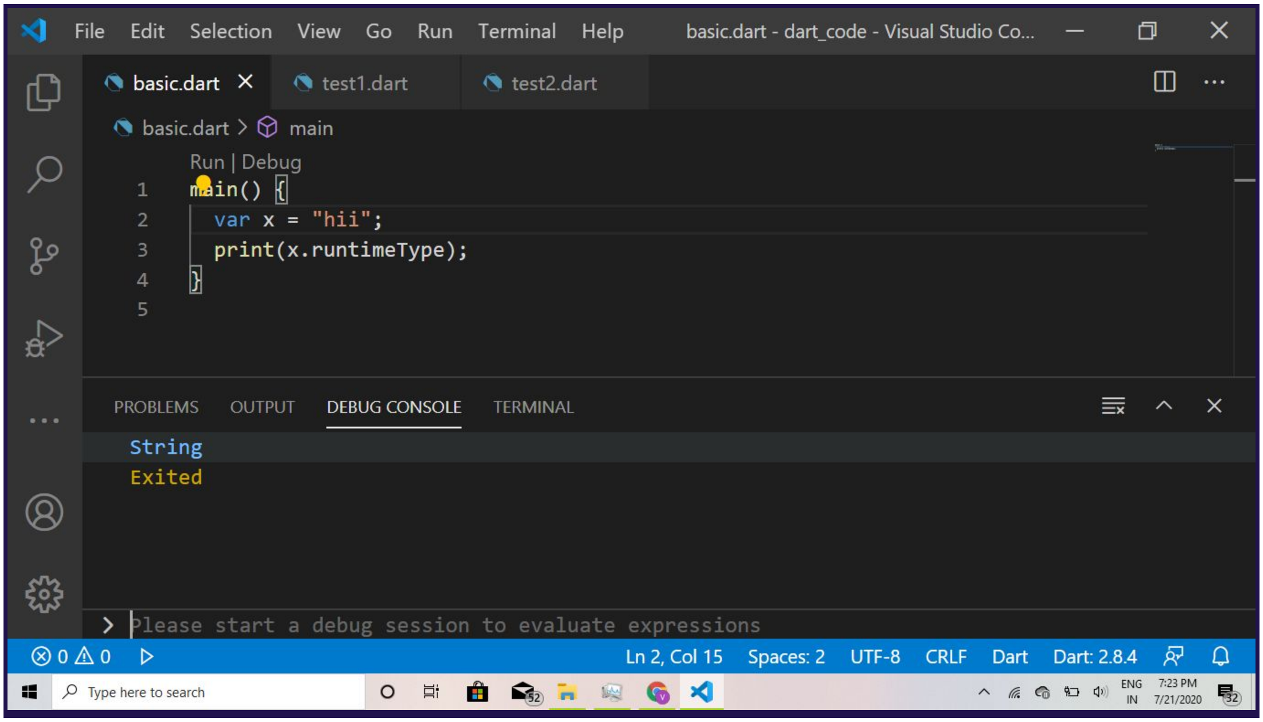
```dart
main() {
  var x = 23;
  var x = "lavya";
  print(x);
}
```

```
basic.dart:3:7: Error: 'x' is already declared in this scope.
  var x = "lavya";
      ^
basic.dart:2:7: Context: Previous declaration of 'x'.
  var x = 23;
      ^
Exited (254)
```



```
main() {
  var x = 23;
  print(x.runtimeType);
}
```

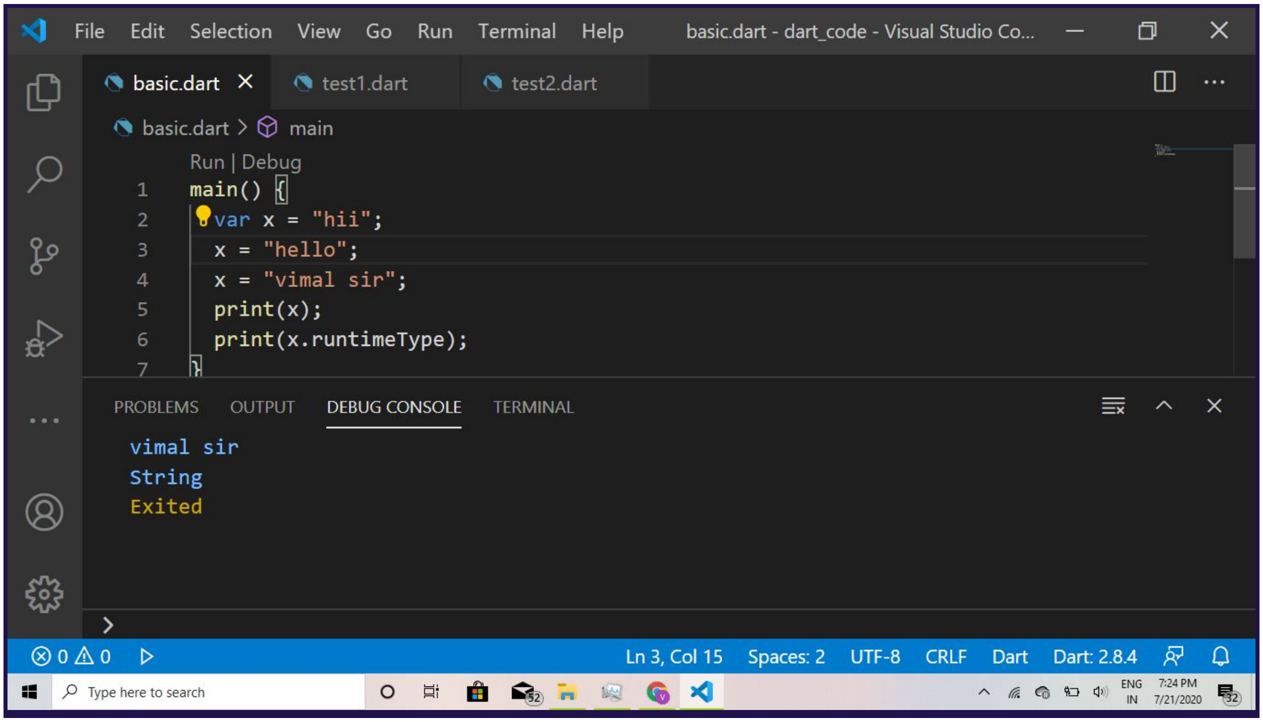
```
int
Exited
```



```
main() {
  var x = "hii";
  print(x.runtimeType);
}
```

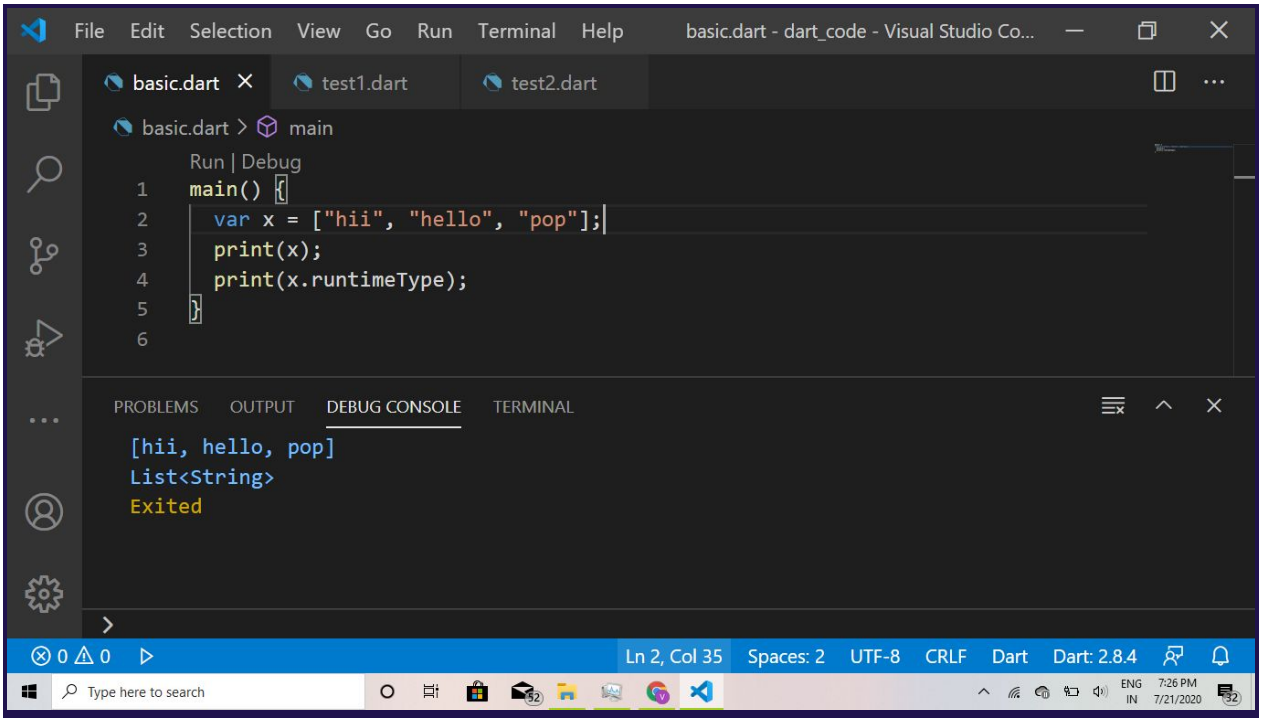
```
String
Exited
```

```
> Please start a debug session to evaluate expressions
```



```dart
main() {
  var x = "hii";
  x = "hello";
  x = "vimal sir";
  print(x);
  print(x.runtimeType);
}
```

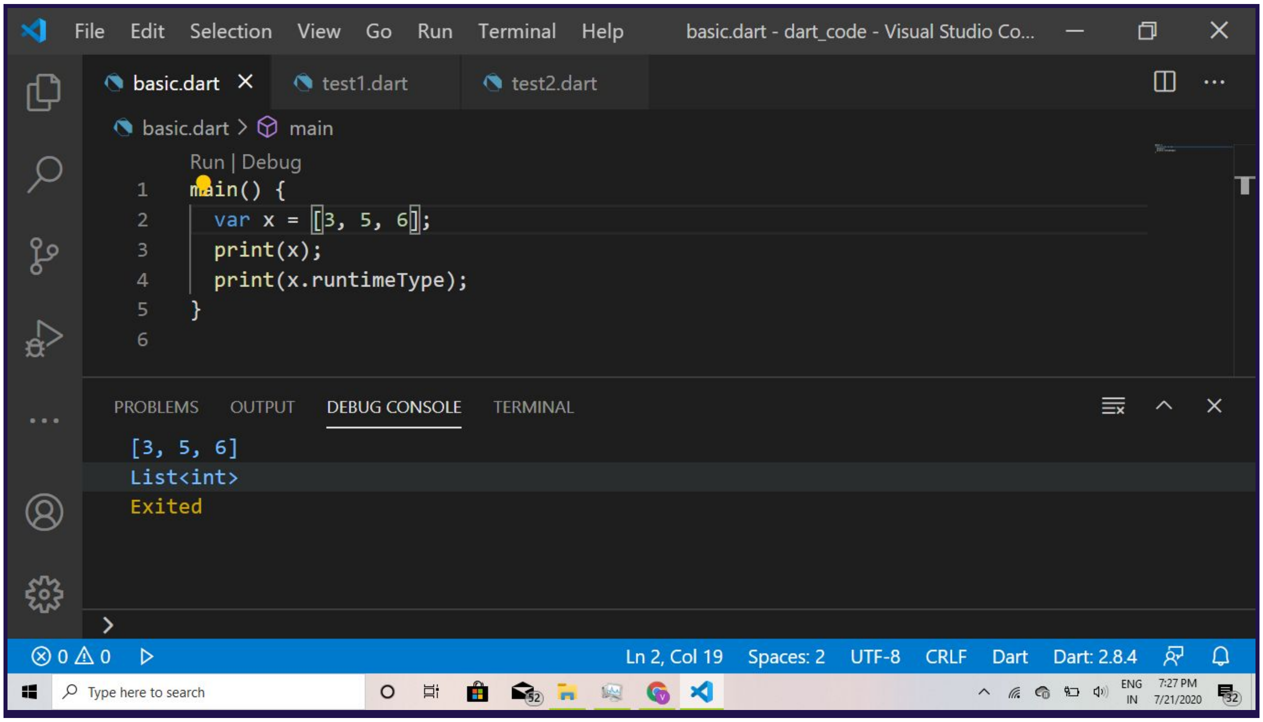
```
vimal sir
String
Exited
```



```dart
main() {
  var x = ["hii", "hello", "pop"];
  print(x);
  print(x.runtimeType);
}
```

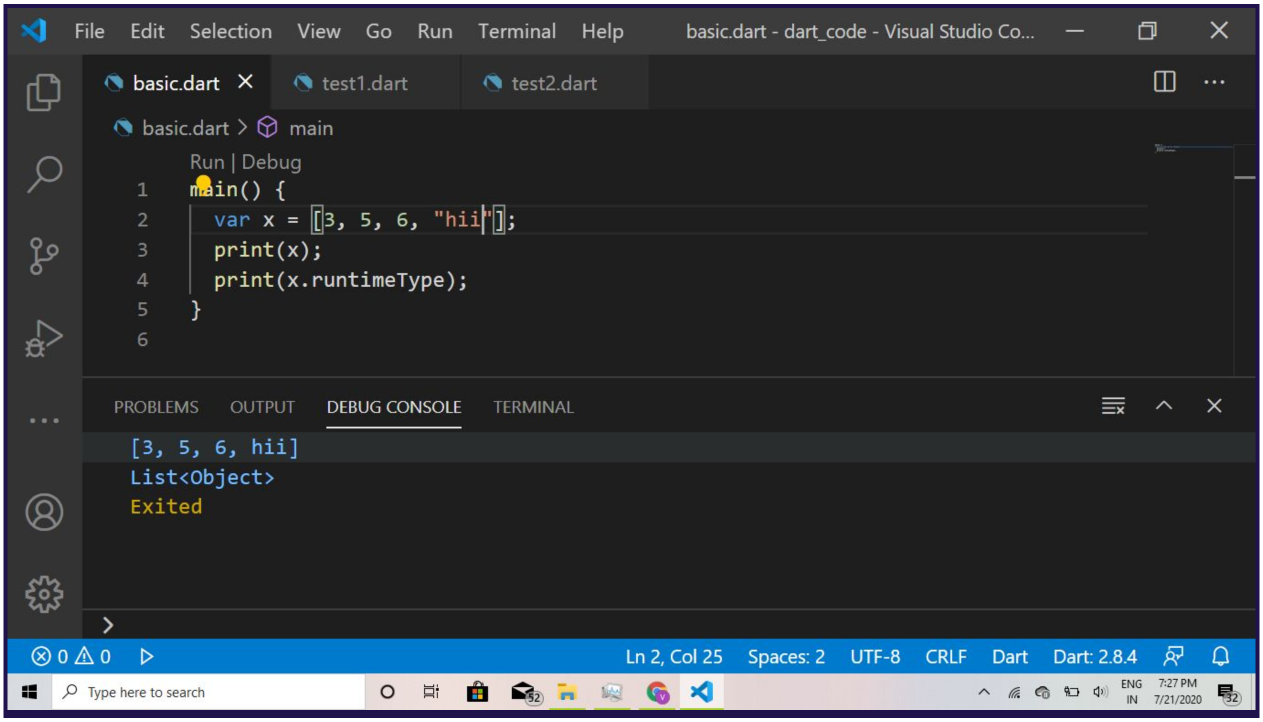
```
[hii, hello, pop]
List<String>
Exited
```

list data type



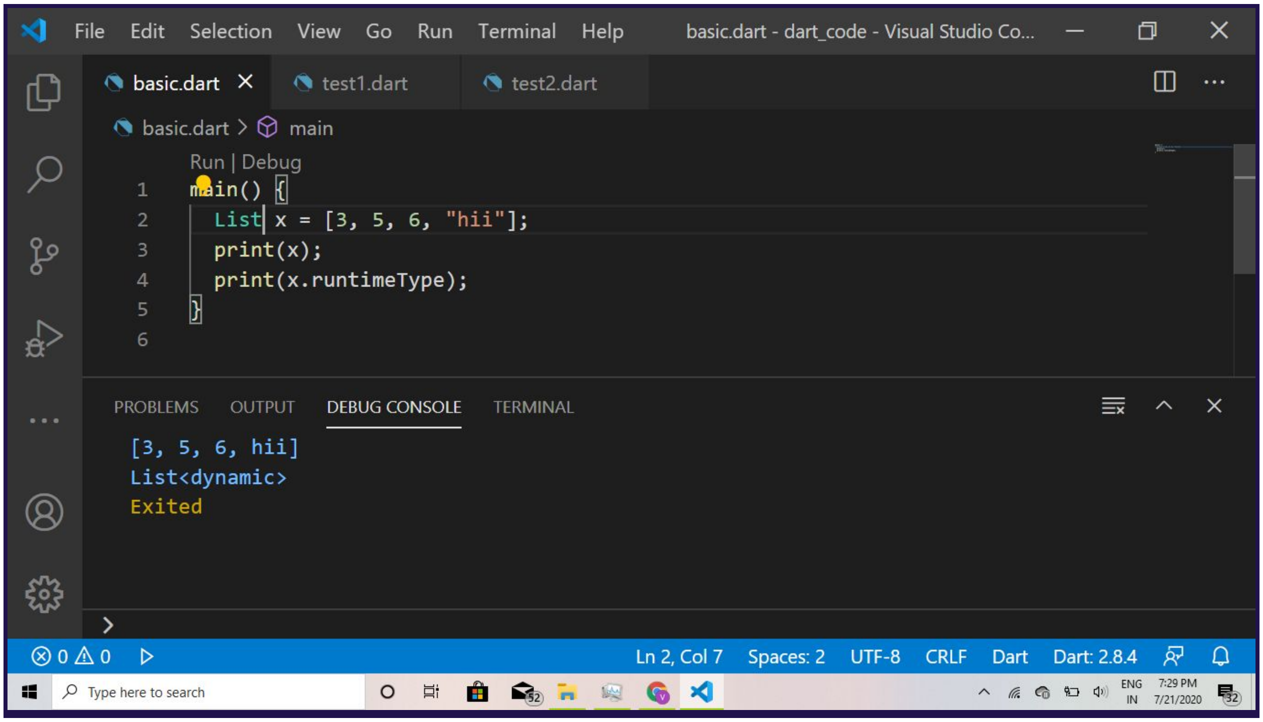
```
main() {
  var x = [3, 5, 6];
  print(x);
  print(x.runtimeType);
}
```

```
[3, 5, 6]
List<int>
Exited
```



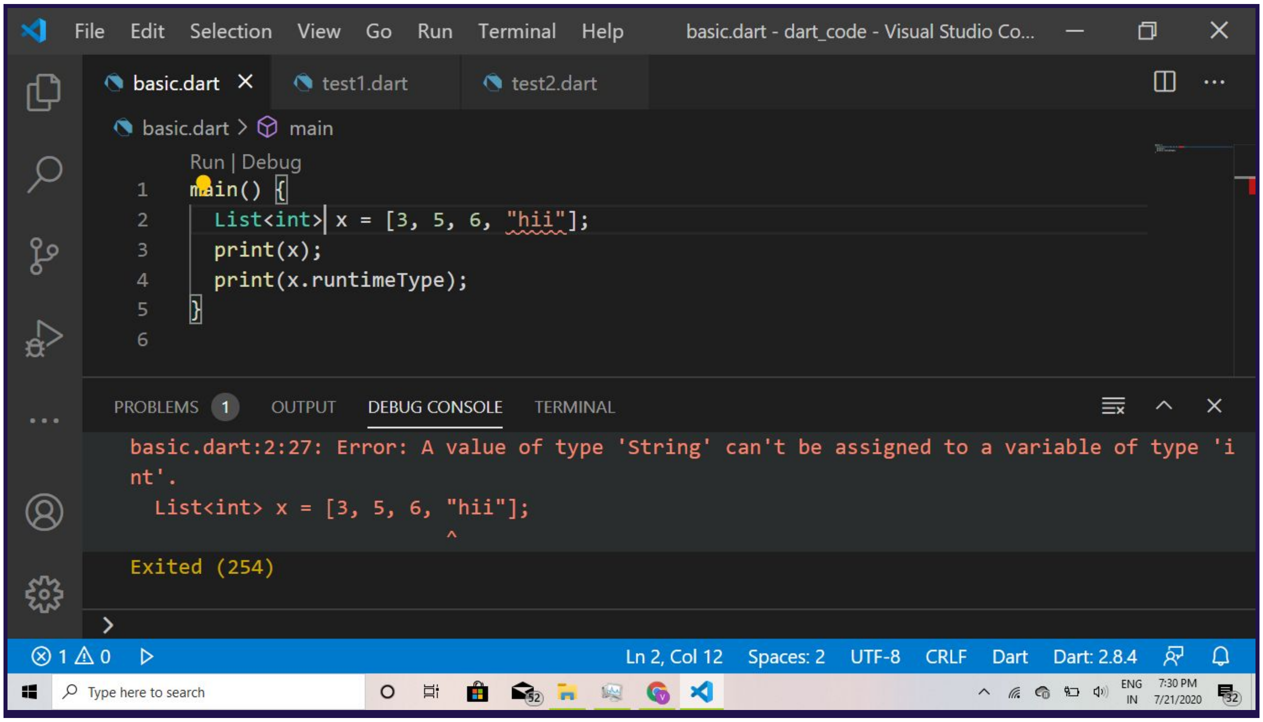
```
main() {
  var x = [3, 5, 6, "hii"];
  print(x);
  print(x.runtimeType);
}
```

```
[3, 5, 6, hii]
List<Object>
Exited
```



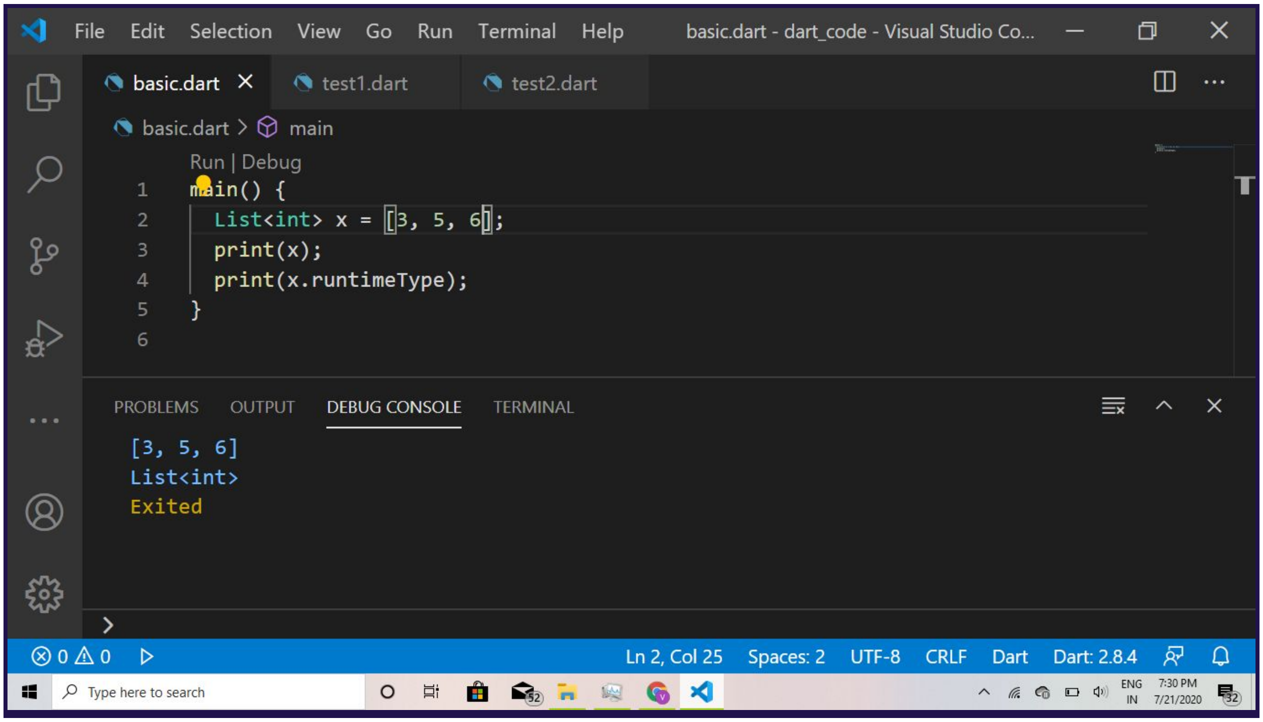
```
main() {
  List x = [3, 5, 6, "hii"];
  print(x);
  print(x.runtimeType);
}
```

```
[3, 5, 6, hii]
List<dynamic>
Exited
```



```
main() {
  List<int> x = [3, 5, 6, "hii"];
  print(x);
  print(x.runtimeType);
}
```

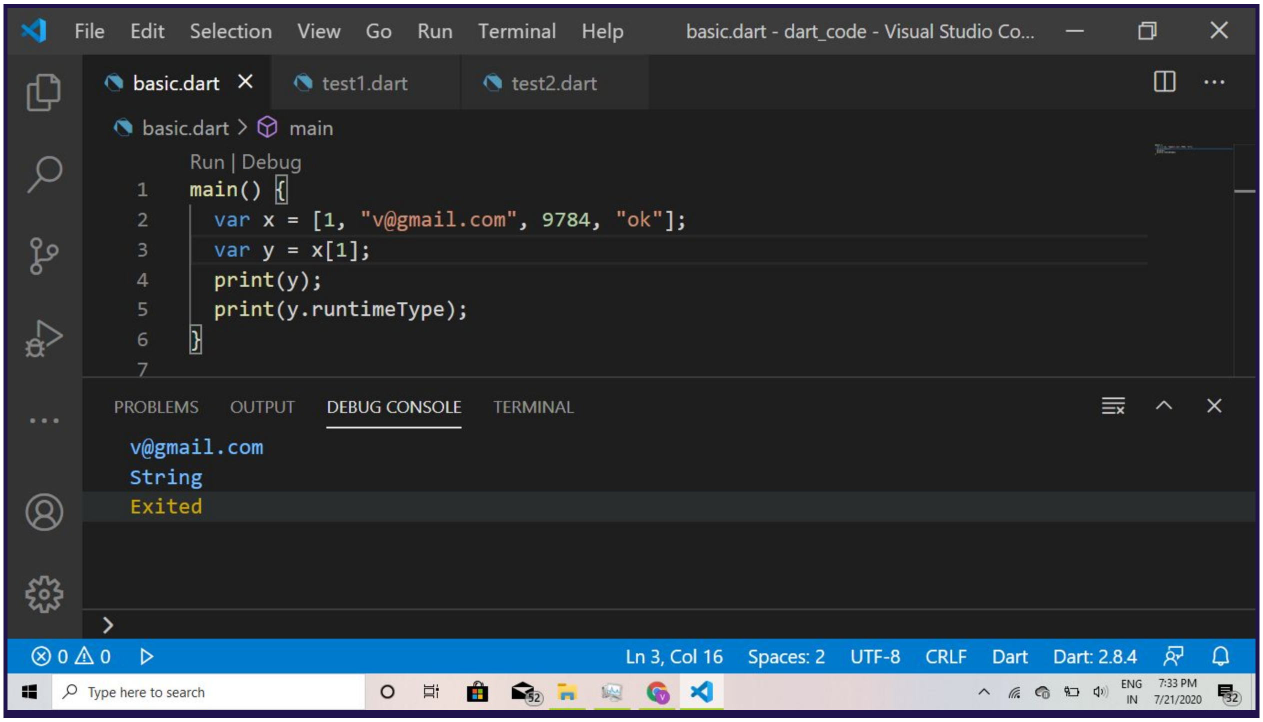
```
basic.dart:2:27: Error: A value of type 'String' can't be assigned to a variable of type 'i
nt'.
  List<int> x = [3, 5, 6, "hii"];
                          ^
Exited (254)
```



```dart
main() {
  List<int> x = [3, 5, 6];
  print(x);
  print(x.runtimeType);
}
```

```
[3, 5, 6]
List<int>
Exited
```

array start with position number zero by default

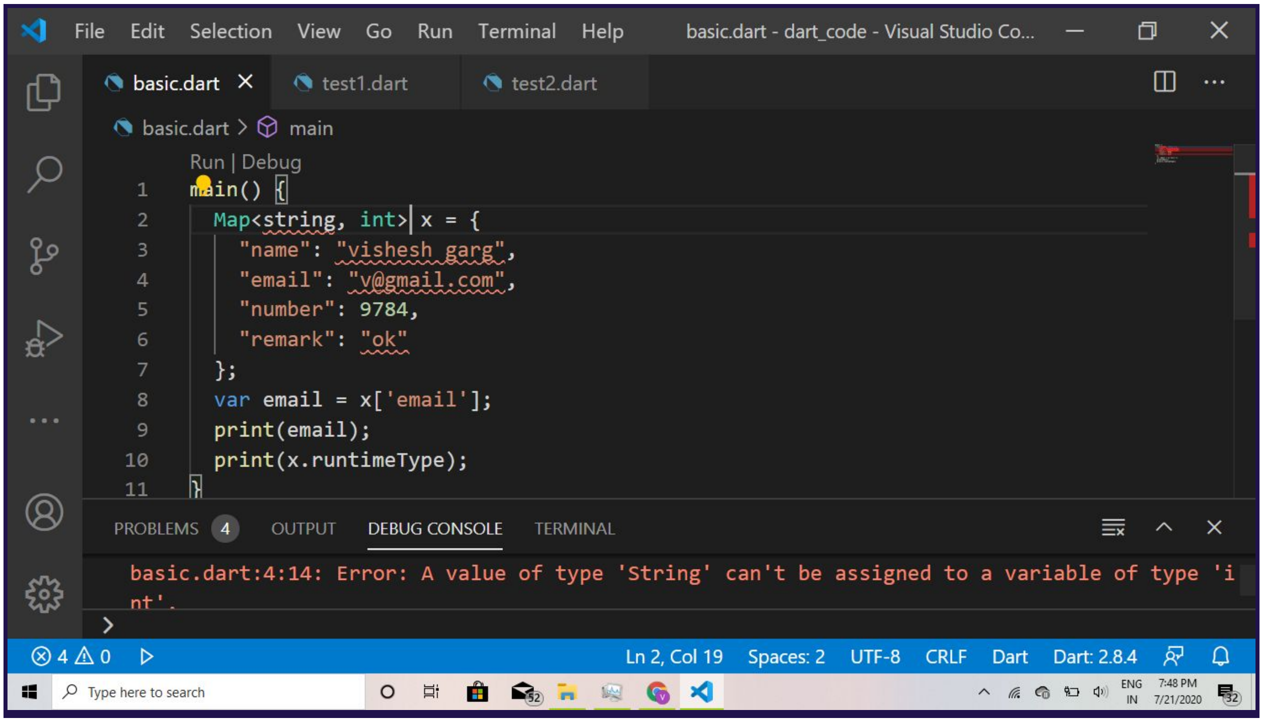


```dart
main() {
  var x = [1, "v@gmail.com", 9784, "ok"];
  var y = x[1];
  print(y);
  print(y.runtimeType);
}
```

```
v@gmail.com
String
Exited
```

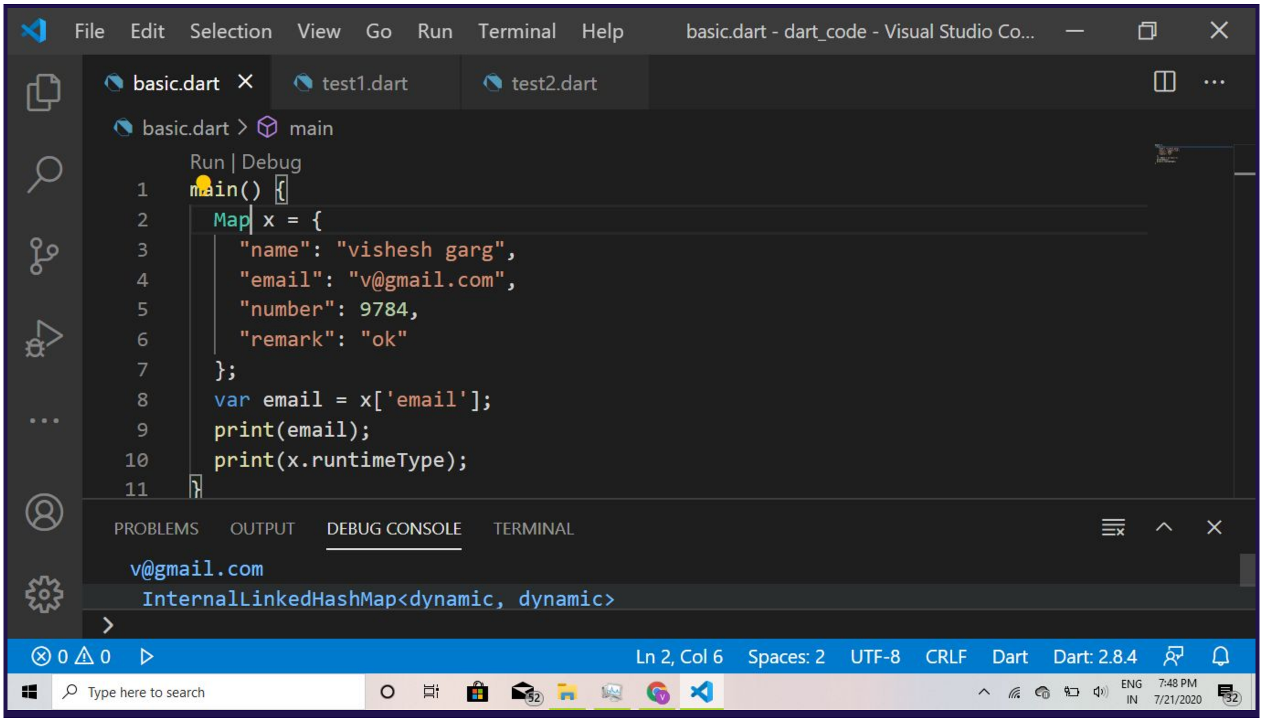
list can be append ,update,delete it is like a read-writeable (mutable)

So it is better to use mapping concept



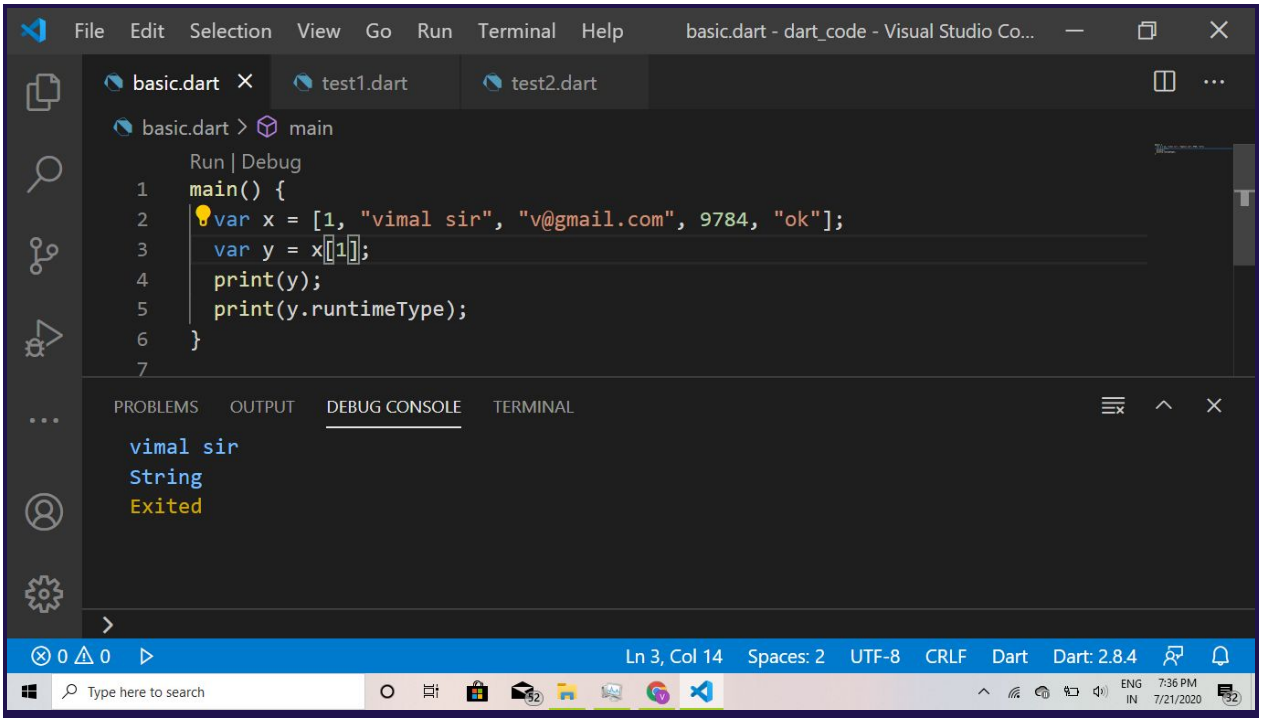
```
main() {
  Map<string, int> x = {
    "name": "vishesh garg",
    "email": "v@gmail.com",
    "number": 9784,
    "remark": "ok"
  };
  var email = x['email'];
  print(email);
  print(x.runtimeType);
}
```

```
basic.dart:4:14: Error: A value of type 'String' can't be assigned to a variable of type 'i
nt'.
```



```
main() {
  Map x = {
    "name": "vishesh garg",
    "email": "v@gmail.com",
    "number": 9784,
    "remark": "ok"
  };
  var email = x['email'];
  print(email);
  print(x.runtimeType);
}
```

```
v@gmail.com
 InternalLinkedHashMap<dynamic, dynamic>
```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Ln 3, Col 14 Spaces: 2 UTF-8 CRLF Dart Dart: 2.8.4
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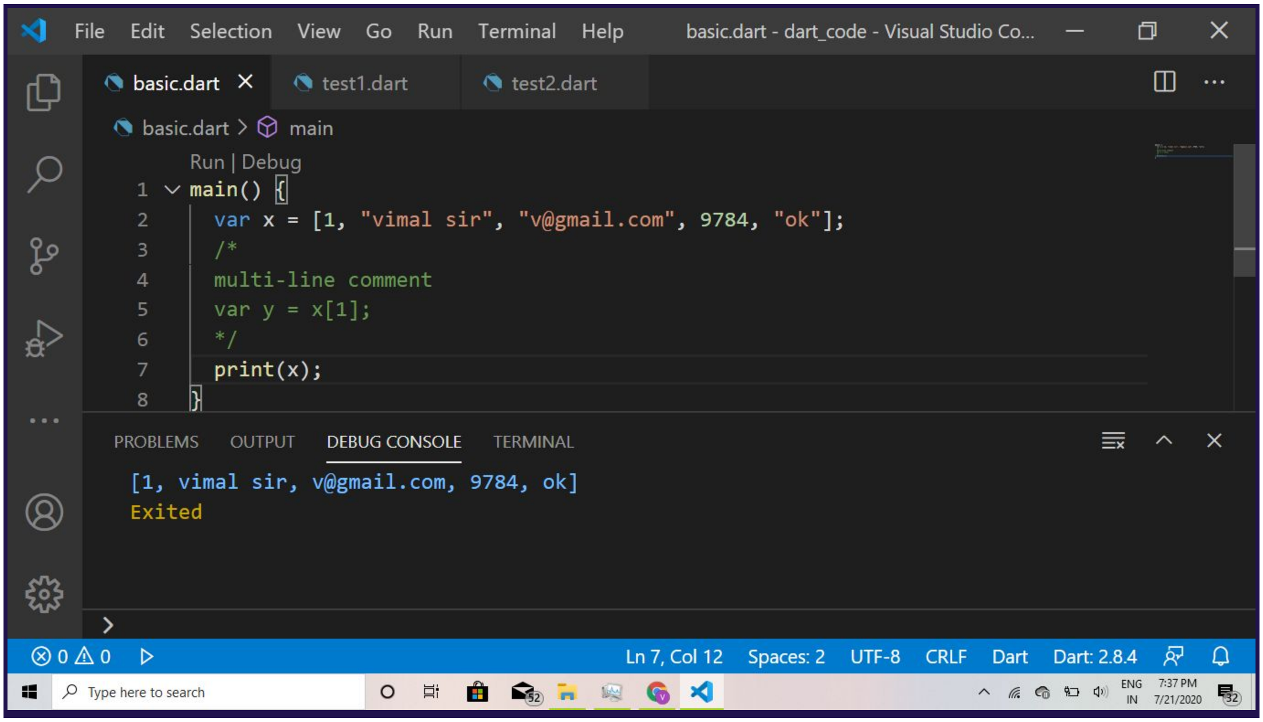
```
main() {
  var x = [1, "vimal sir", "v@gmail.com", 9784, "ok"];
  var y = x[1];
  print(y);
  print(y.runtimeType);
}
```

```
vimal sir
String
Exited
```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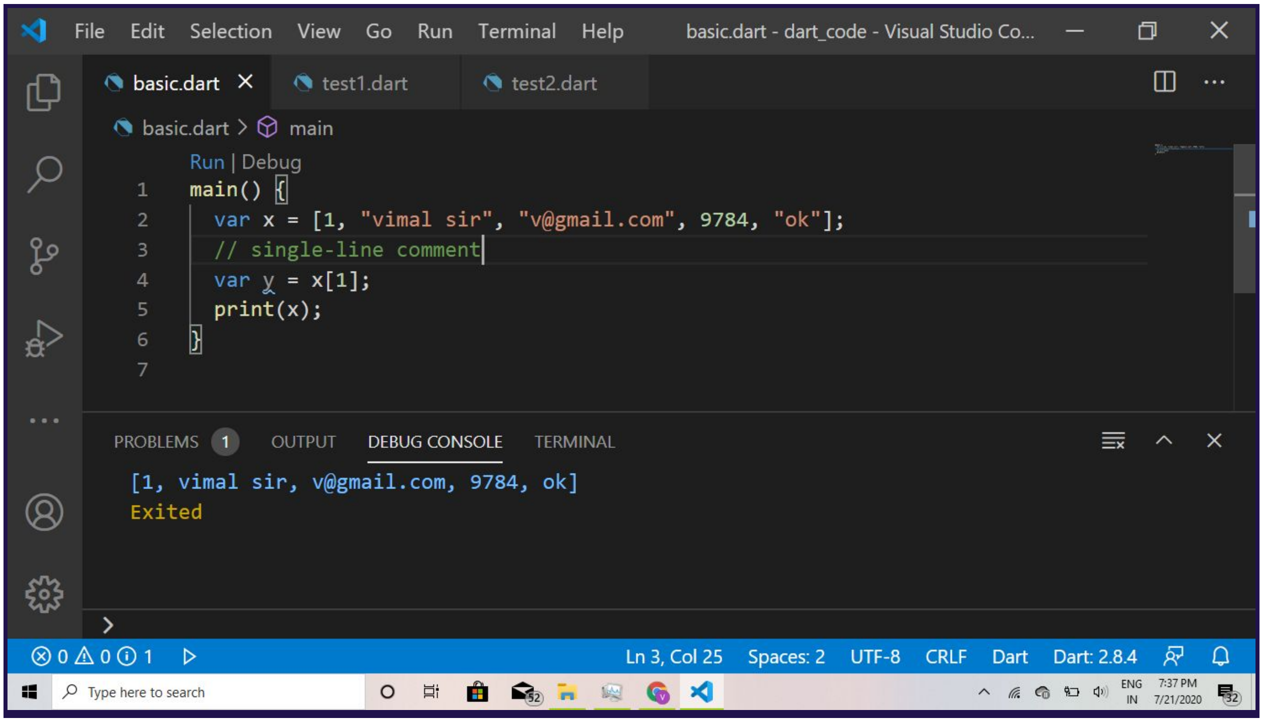
test2.dart
basic.dart > main
Run | Debug
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
⊗ 0 ⚠ 0
Ln 7, Col 12 Spaces: 2 UTF-8 CRLF Dart Dart: 2.8.4
Type here to search
ENG IN 7:37 PM 7/21/2020

```
main() {
  var x = [1, "vimal sir", "v@gmail.com", 9784, "ok"];
  /*
  multi-line comment
  var y = x[1];
  */
  print(x);
}
```

```
[1, vimal sir, v@gmail.com, 9784, ok]
Exited
```


File Edit Selection View Go Run Terminal Help
basic.dart - dart_code - Visual Studio Co...
basic.dart
test1.dart
test2.dart
basic.dart > main
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PROBLEMS 1
OUTPUT
DEBUG CONSOLE
TERMINAL
Ln 3, Col 25 Spaces: 2 UTF-8 CRLF Dart Dart: 2.8.4
Type here to search
7:37 PM 7/21/2020

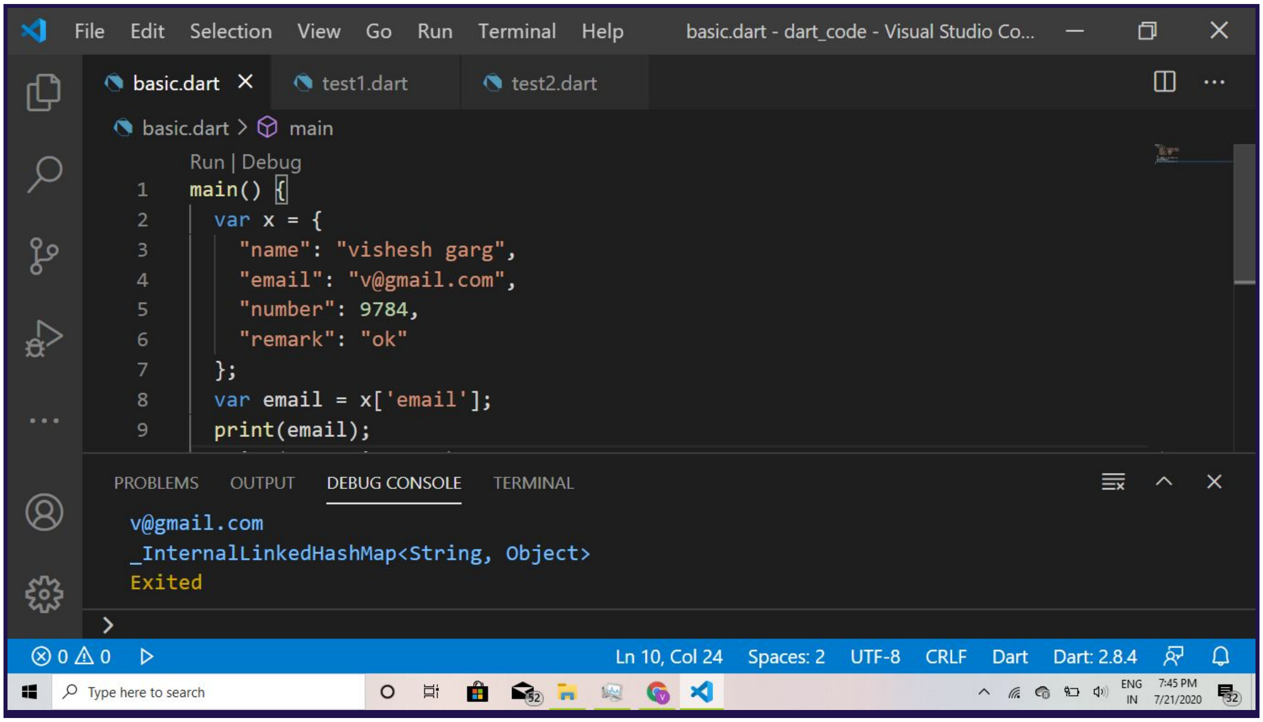
```
main() {
  var x = [1, "vimal sir", "v@gmail.com", 9784, "ok"];
  // single-line comment
  var y = x[1];
  print(x);
}
```

```
[1, vimal sir, v@gmail.com, 9784, ok]
Exited
```

map data type:

Variable:value

Key-value pair here email is known as key and value is the the email id


File Edit Selection View Go Run Terminal Help
basic.dart - dart_code - Visual Studio Co...
basic.dart
test1.dart
test2.dart
basic.dart > main
Run | Debug
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Ln 10, Col 24 Spaces: 2 UTF-8 CRLF Dart Dart: 2.8.4
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7:45 PM 7/21/2020

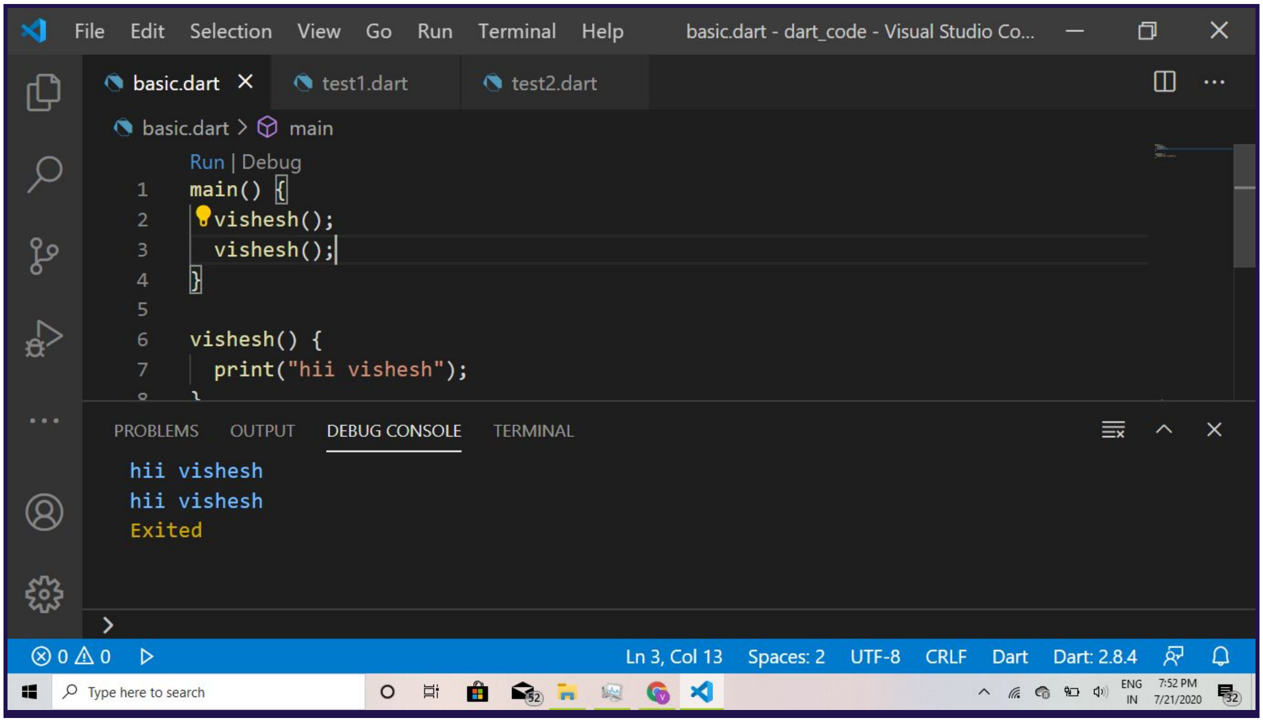
```
main() {
  var x = {
    "name": "vishesh garg",
    "email": "v@gmail.com",
    "number": 9784,
    "remark": "ok"
  };
  var email = x['email'];
  print(email);
```

```
v@gmail.com
_InternalLinkedHashMap<String, Object>
Exited
```

```
main() {
  var x = {
    "name": "vishesh garg",
    "email": "v@gmail.com",
    "number": 9784,
    "remark": "ok"
  };
  var email = x['email'];
  print(email);
  print(x.runtimeType);
}
```

If u want to auto format ur code just place a comma on the last-key value pair example:

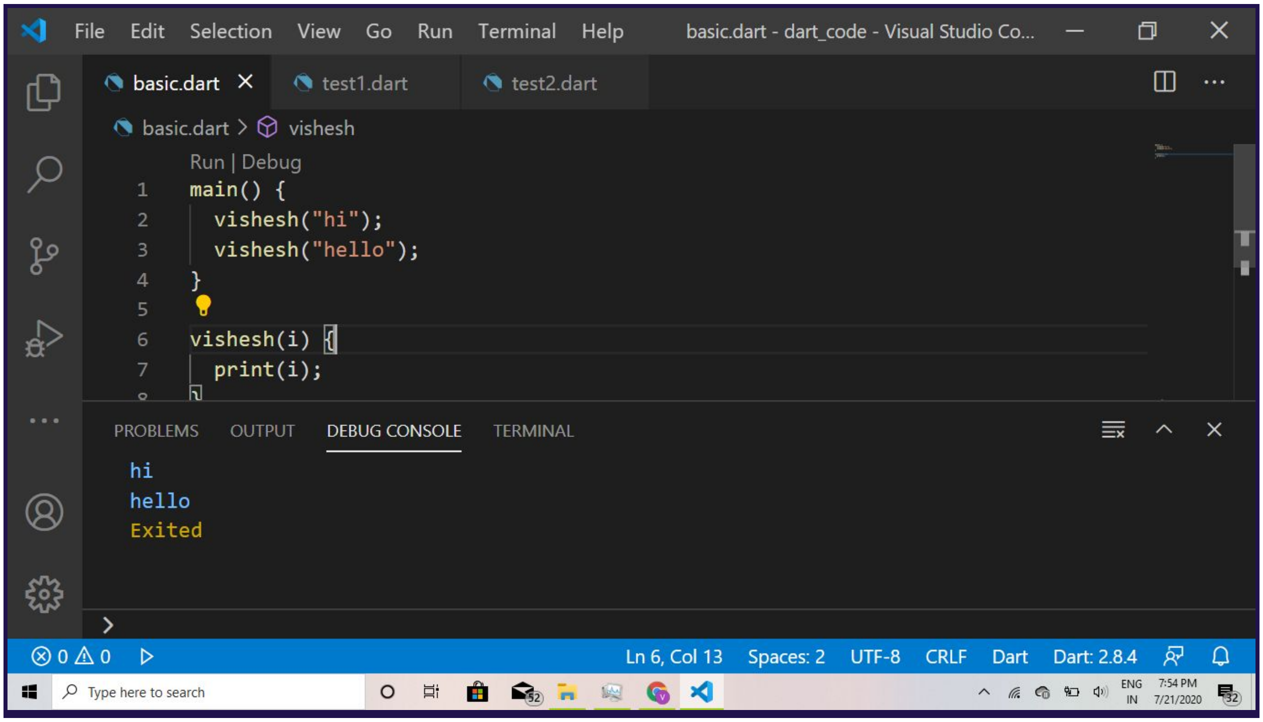
```
Map x = {
    "name": "vishesh garg",
    "email": "v@gmail.com",
    "number": 9784,
    "remark": "ok",
  };
```



```
main() {
  vishesh();
  vishesh();
}

vishesh() {
  print("hii vishesh");
}
```

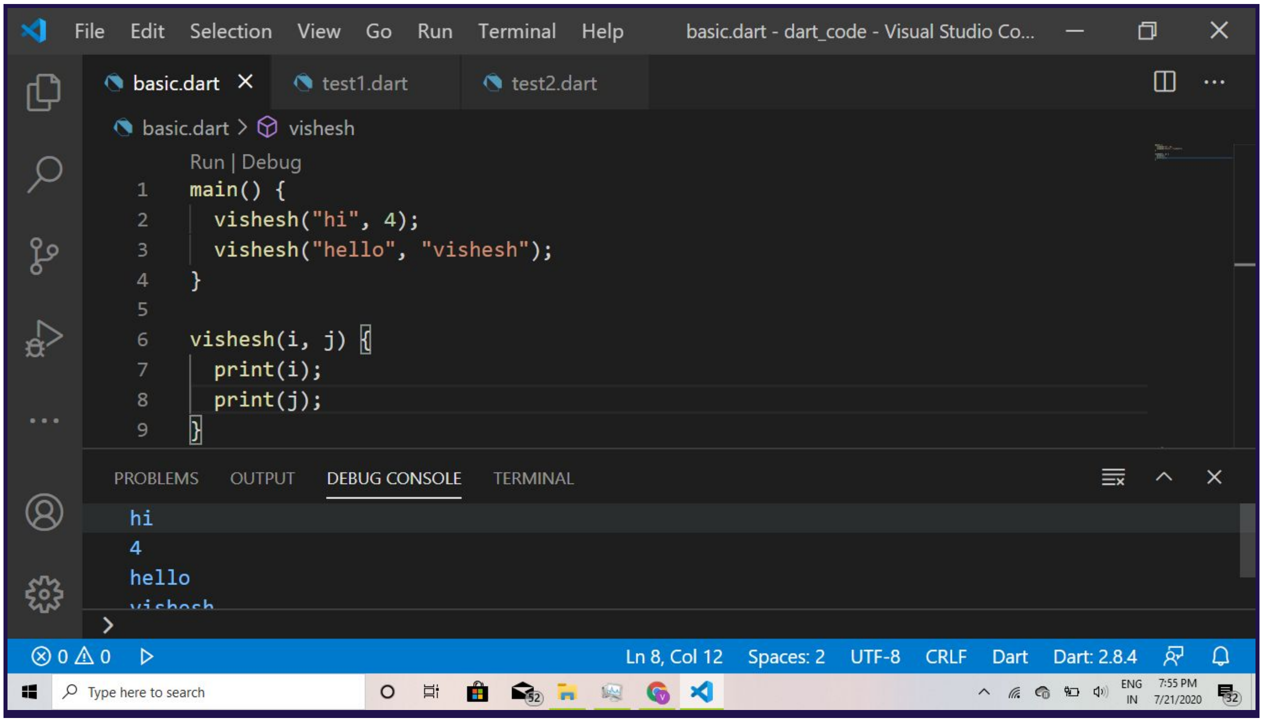
```
hii vishesh
hii vishesh
Exited
```



```
main() {
  vishesh("hi");
  vishesh("hello");
}

vishesh(i) {
  print(i);
}
```

```
hi
hello
Exited
```


File Edit Selection View Go Run Terminal Help
basic.dart - dart_code - Visual Studio Co...
basic.dart
test1.dart
test2.dart
basic.dart > vishesh
Run | Debug
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
⊗ 0 ⚠ 0
Ln 8, Col 12 Spaces: 2 UTF-8 CRLF Dart Dart: 2.8.4
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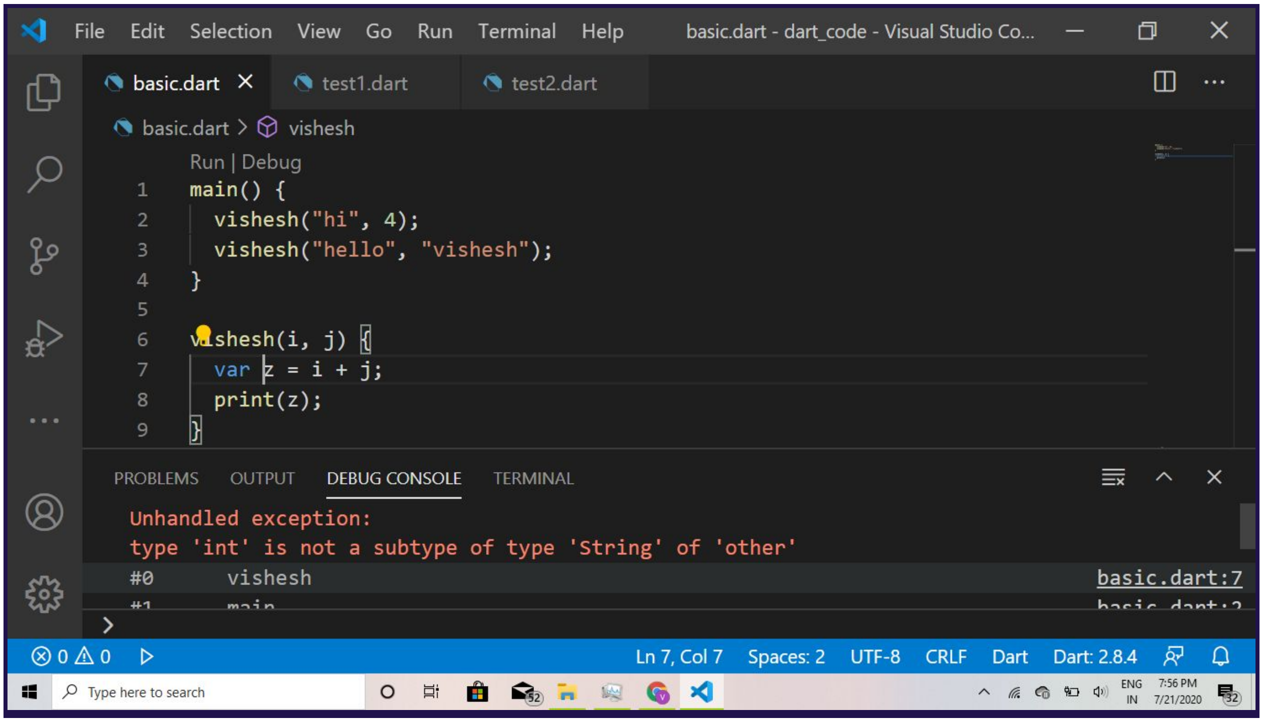
```
main() {
  vishesh("hi", 4);
  vishesh("hello", "vishesh");
}

vishesh(i, j) {
  print(i);
  print(j);
}
```

```
hi
4
hello
vishesh
```


File Edit Selection View Go Run Terminal Help
basic.dart - dart_code - Visual Studio Co...
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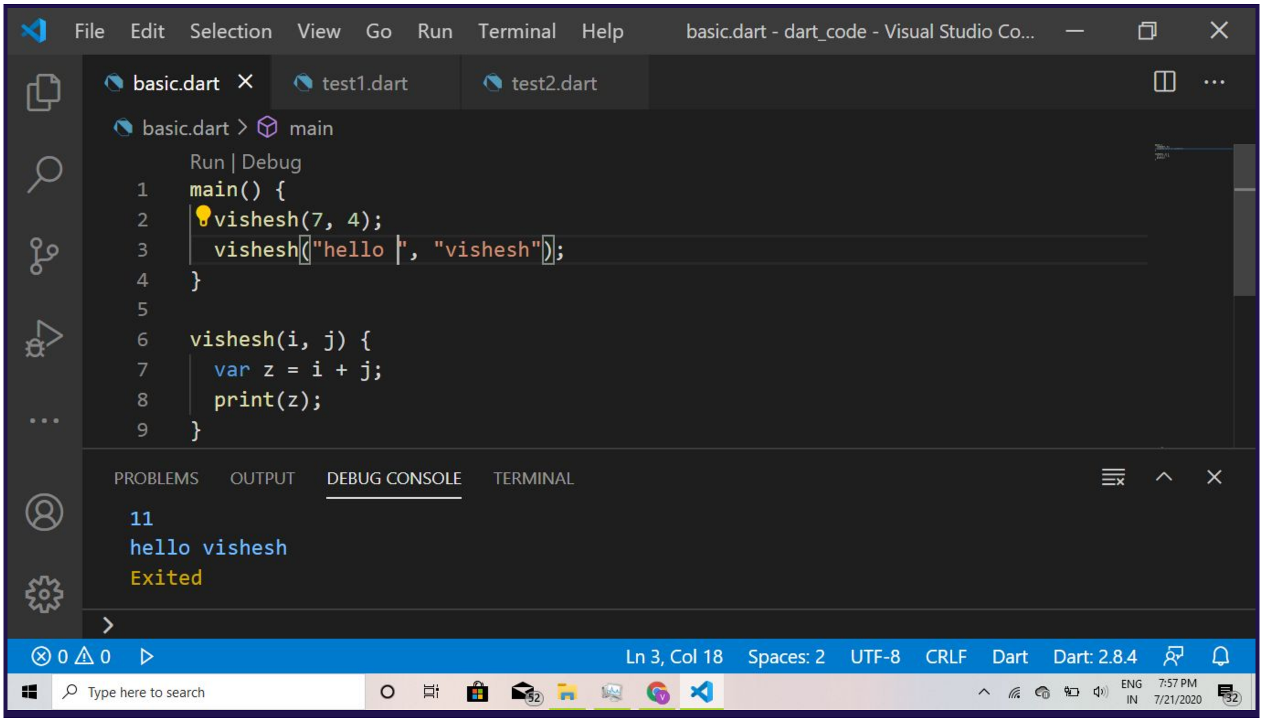
```
main() {
  vishesh("hi", 4);
  vishesh("hello", "vishesh");
}

vishesh(i, j) {
  var z = i + j;
  print(z);
}
```

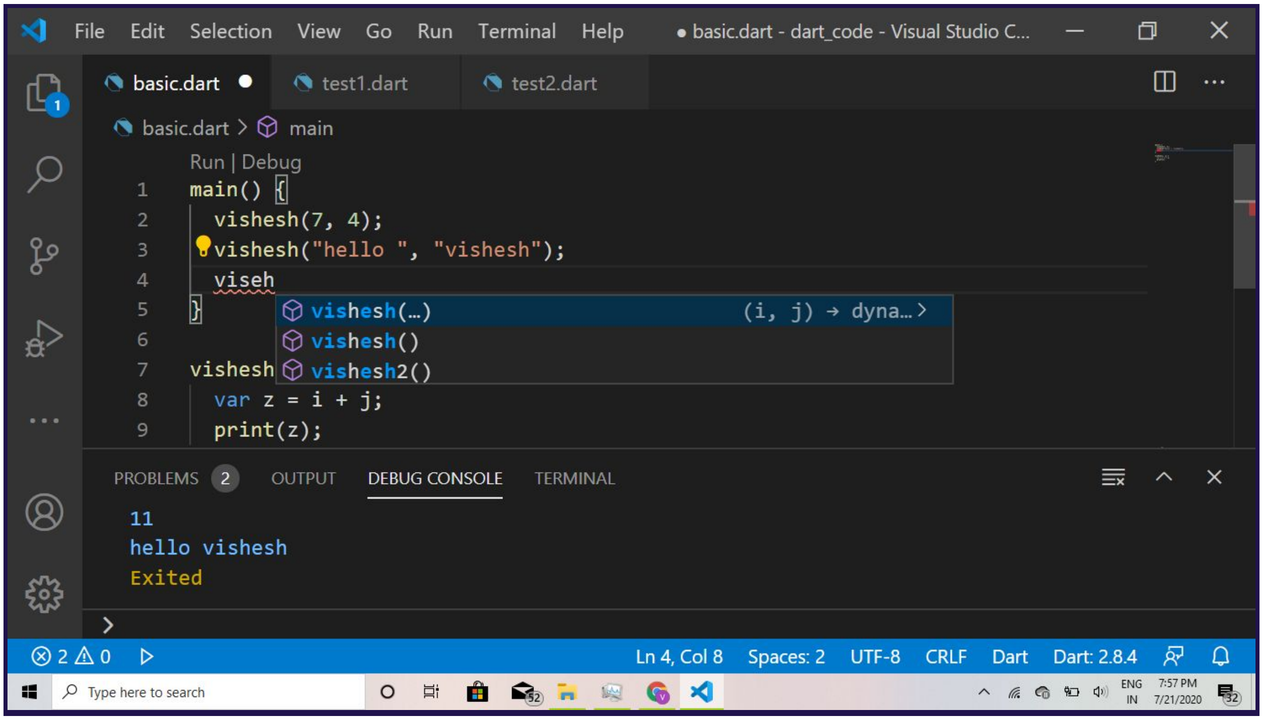
```
Unhandled exception:
type 'int' is not a subtype of type 'String' of 'other'
#0      vishesh                                              basic.dart:7
#1      main                                                 basic.dart:2
```



```
main() {
  vishesh(7, 4);
  vishesh("hello ", "vishesh");
}

vishesh(i, j) {
  var z = i + j;
  print(z);
}
```

```
11
hello vishesh
Exited
```

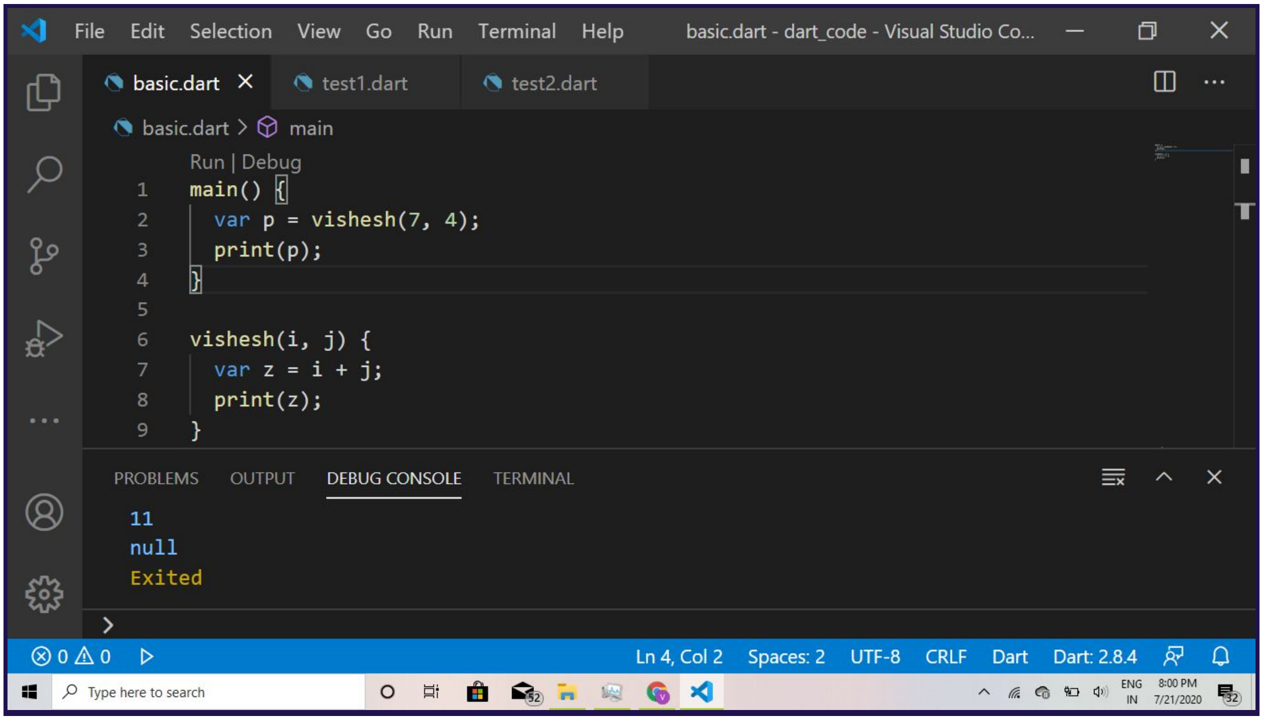
function signature



```
main() {
  vishesh(7, 4);
  vishesh("hello ", "vishesh");
  viseh
}

vishesh
  var z = i + j;
  print(z);
```

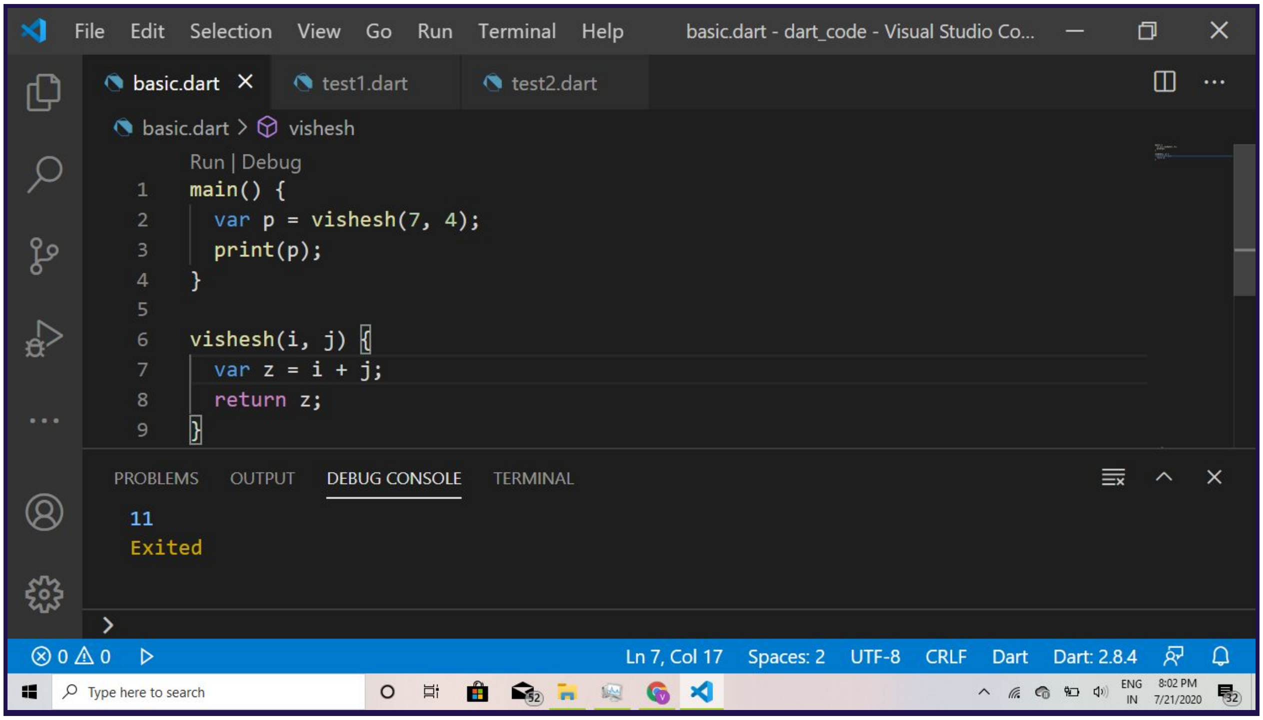
```
vishesh(…)                    (i, j) → dyna…
vishesh()
vishesh2()
```

```
11
hello vishesh
Exited
```



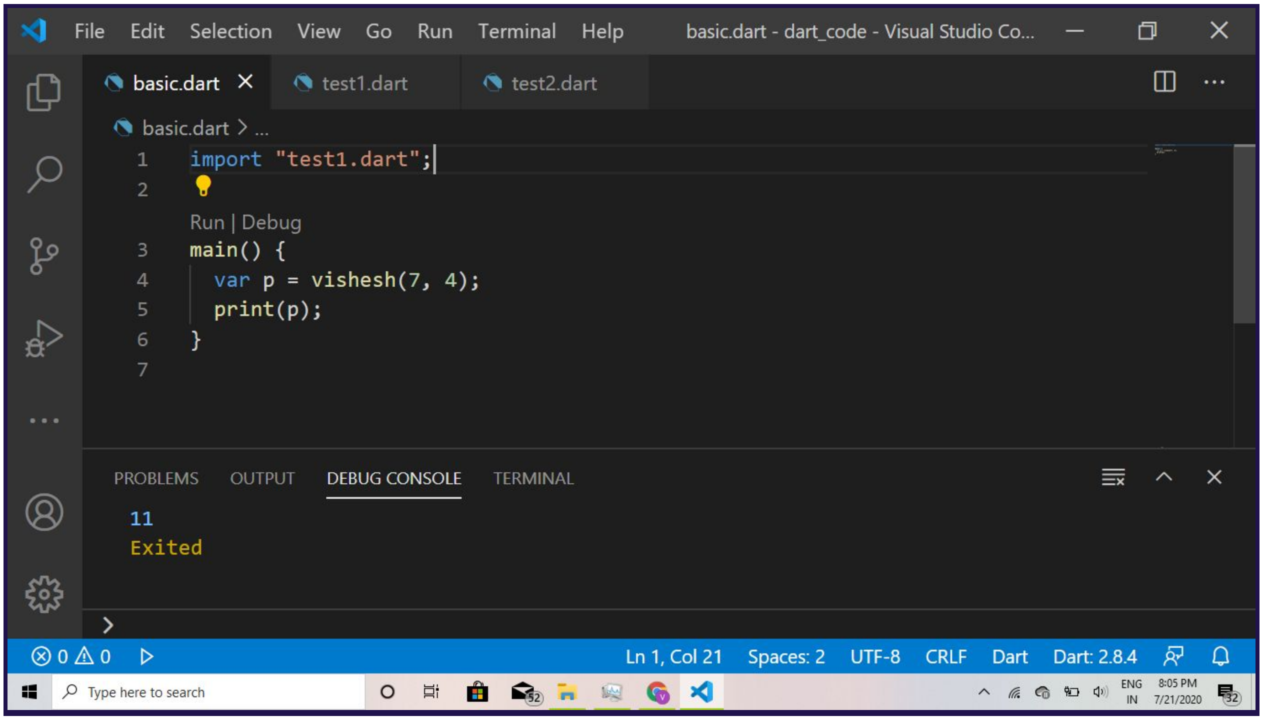
```
main() {
  var p = vishesh(7, 4);
  print(p);
}

vishesh(i, j) {
  var z = i + j;
  print(z);
}
```

```
11
null
Exited
```



```
main() {
  var p = vishesh(7, 4);
  print(p);
}

vishesh(i, j) {
  var z = i + j;
  return z;
}
```

```
11
Exited
```

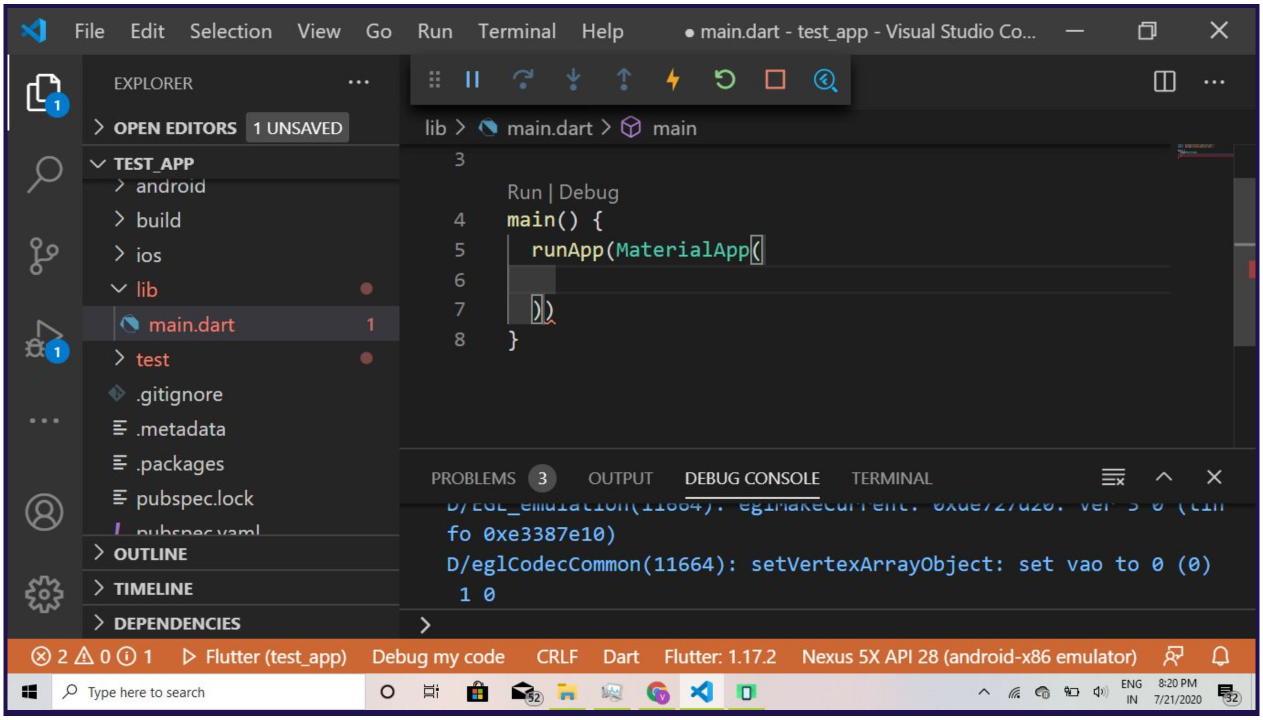


```
import "test1.dart";

main() {
  var p = vishesh(7, 4);
  print(p);
}

```

```
11
Exited
```

if we replace the file name main.dart with xyz.dart thn flutter won't debug it will give us the json file and show us no device is connected

Flutter -> lib -> main.dart

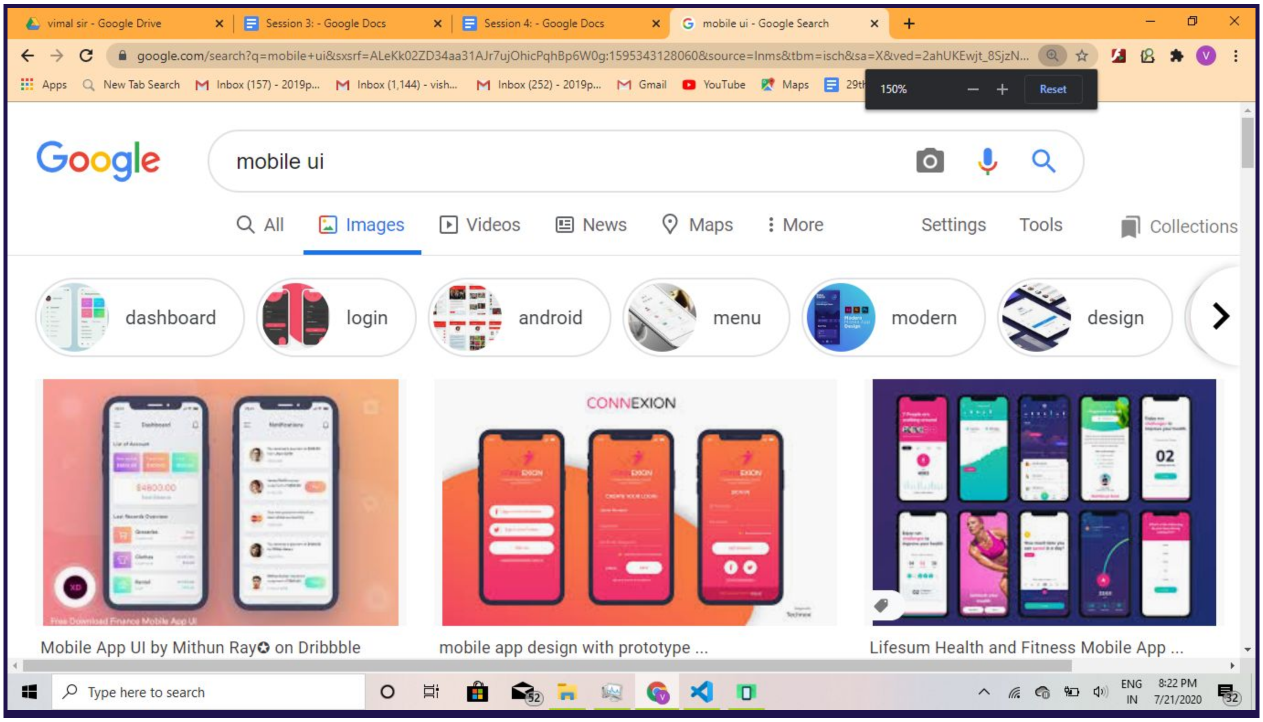


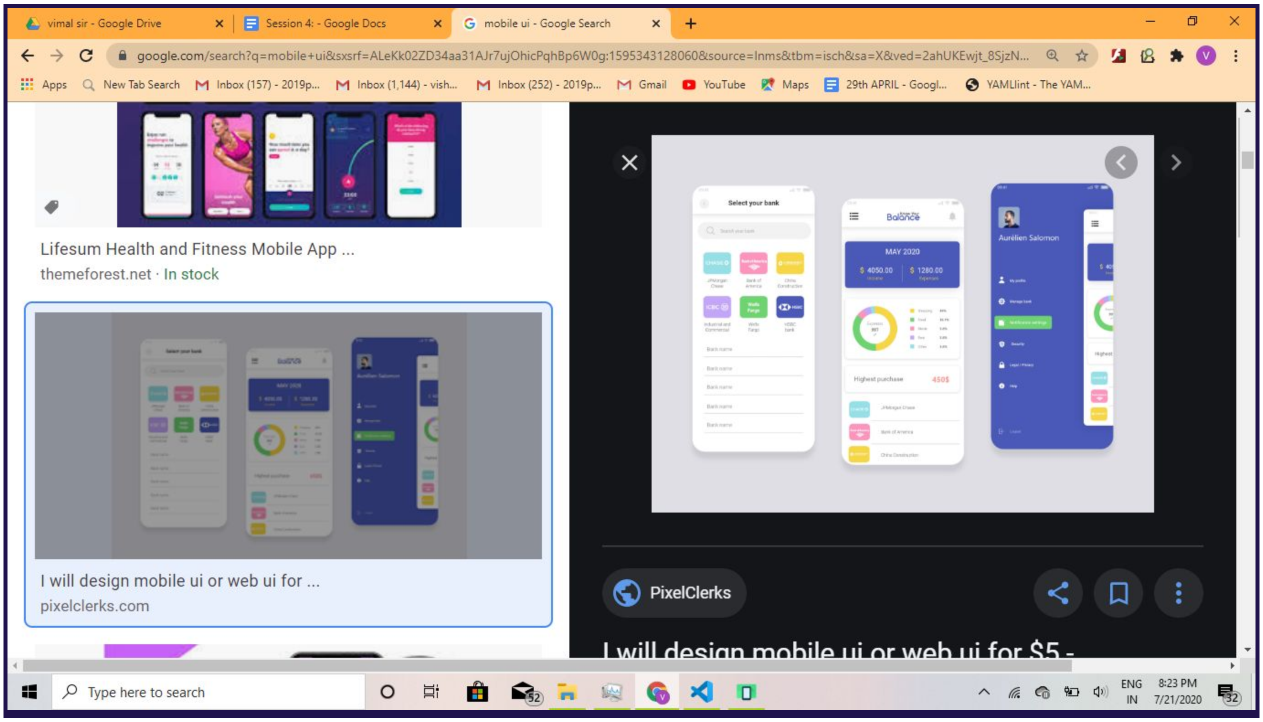
```
Run | Debug
main() {
  runApp(MaterialApp(

  ))
}
```

```
D/EGL_emulation(11664): eglMakeCurrent: 0xde727d20: ver 3 0 (tin
fo 0xe3387e10)
D/eglCodecCommon(11664): setVertexArrayObject: set vao to 0 (0)
 1 0
```

User interface

What is UX ???


vimal sir - Google Drive
Session 3: - Google Docs
Session 4: - Google Docs
mobile ui - Google Search
google.com/search?q=mobile+ui&sxsrf=ALeKk02ZD34aa31AJr7ujOhicPqhBp6W0g:1595343128060&source=lnms&tbm=isch&sa=X&ved=2ahUKEwjt_8SjzN...
150%
Reset
mobile ui
All
Images
Videos
News
Maps
More
Settings
Tools
Collections
dashboard
login
android
menu
modern
design
Mobile App UI by Mithun Ray✪ on Dribbble
mobile app design with prototype ...
Lifesum Health and Fitness Mobile App ...
Type here to search
8:22 PM
7/21/2020


vimal sir - Google Drive
Session 4: - Google Docs
mobile ui - Google Search
Lifesum Health and Fitness Mobile App ...
themeforest.net · In stock
I will design mobile ui or web ui for ...
pixelclerks.com
PixelClerks
I will design mobile ui or web ui for $5 -
Type here to search
8:23 PM
7/21/2020

```
main() {
  runApp(user_interface())
}
```

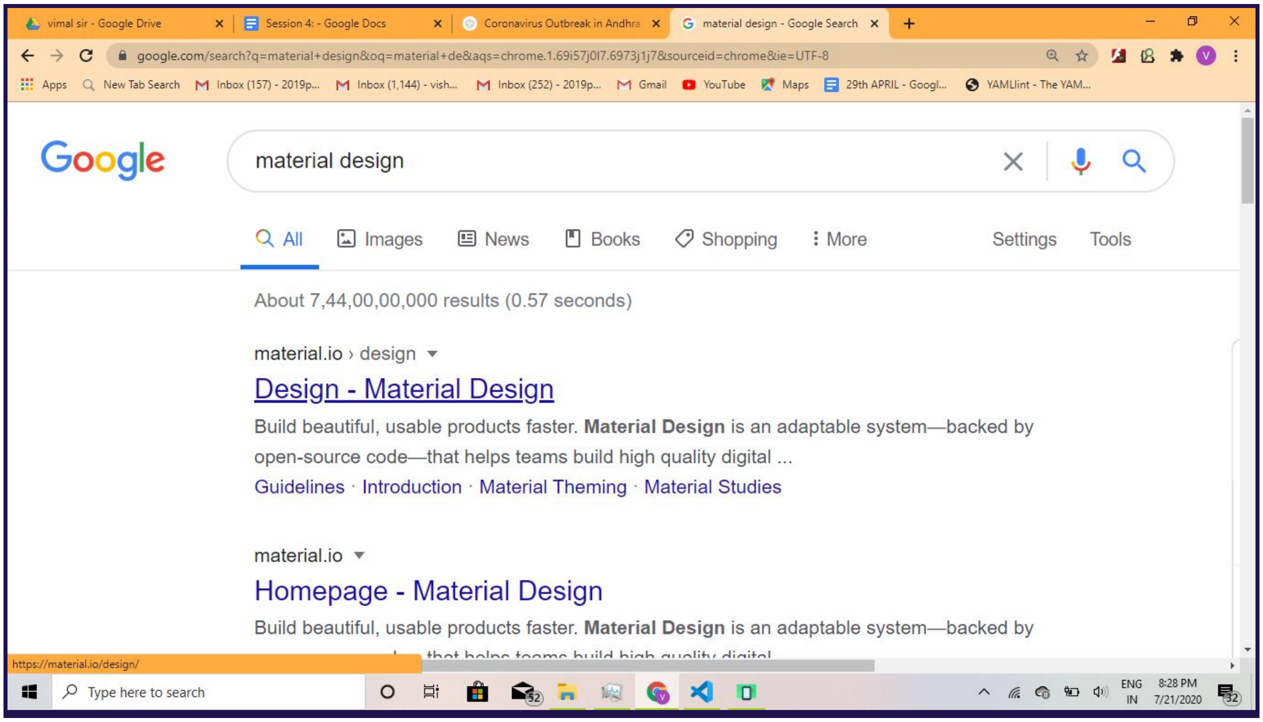
Design language:

Varies from company to company sometimes it is known as design icon or design frame

Eg: google,microsoft etc.

Language name is material design

So here we use MaterialApp which has iconed and other look and feels by google



material design

About 7,44,00,00,000 results (0.57 seconds)

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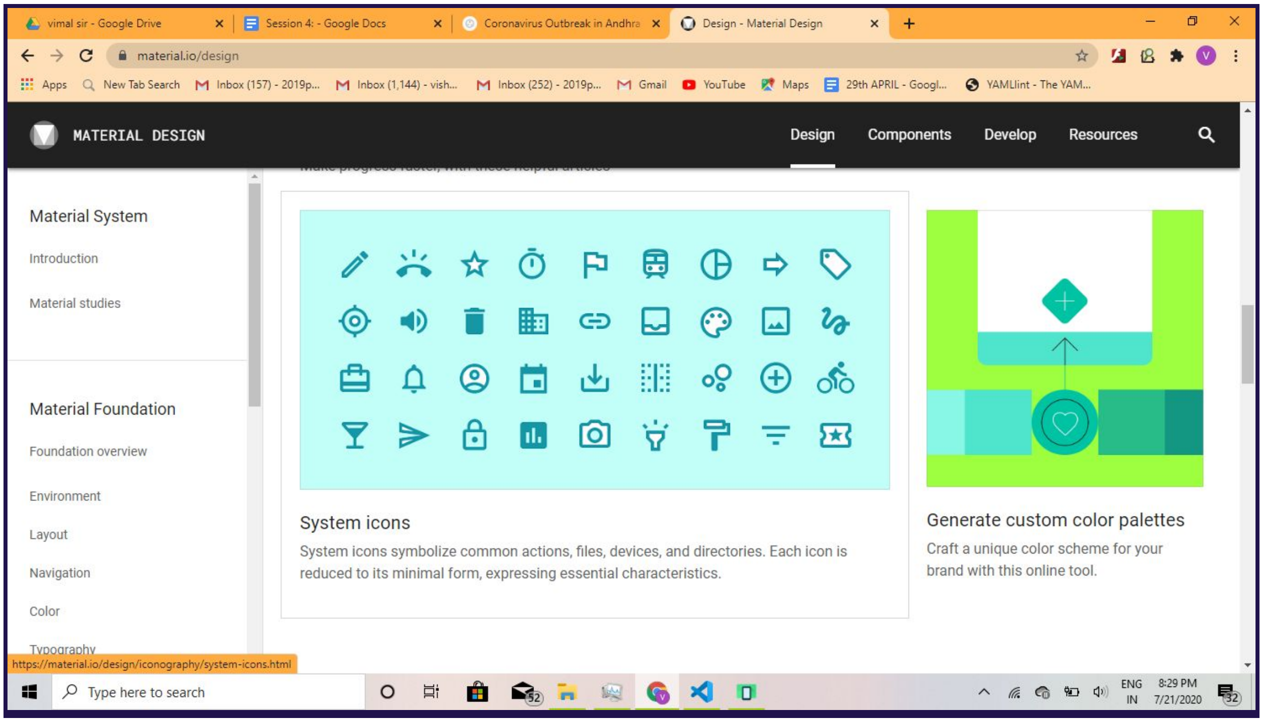
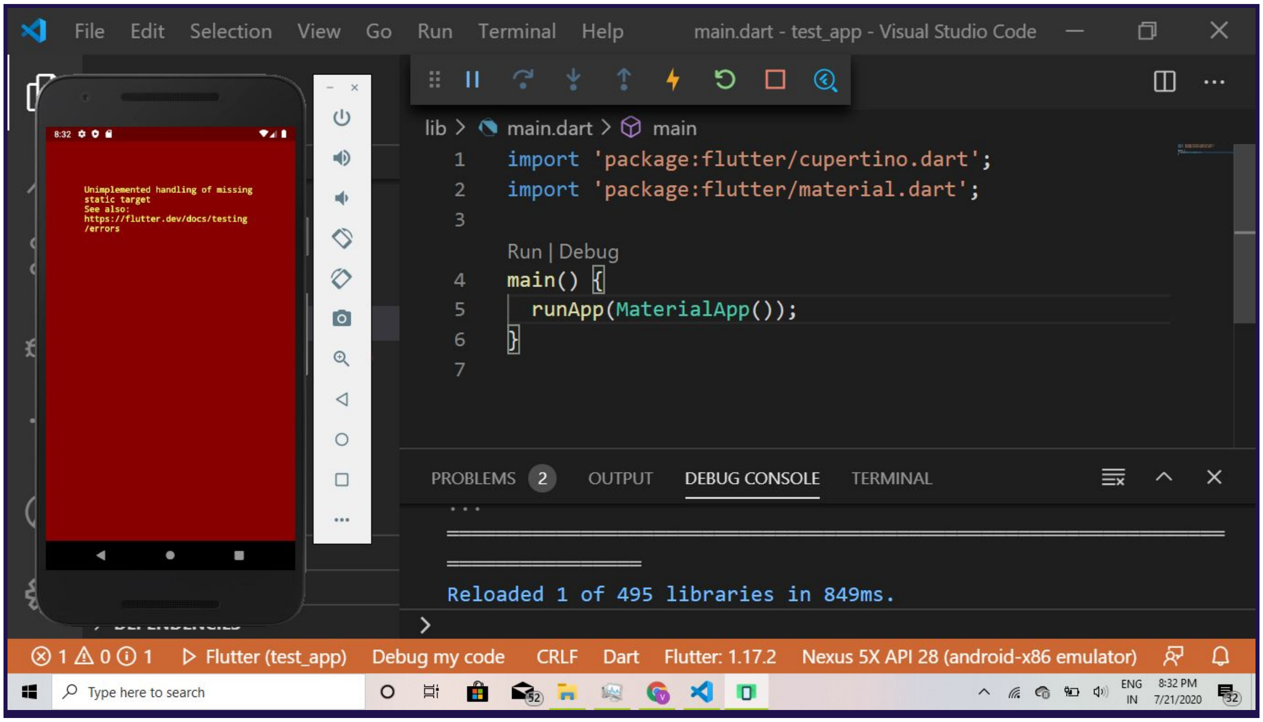


System icons

System icons symbolize common actions, files, devices, and directories. Each icon is reduced to its minimal form, expressing essential characteristics.

Generate custom color palettes

Craft a unique color scheme for your brand with this online tool.



```
Unimplemented handling of missing
static target
See also:
https://flutter.dev/docs/testing
/errors
```

```dart
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

main() {
  runApp(MaterialApp());
}
```

```
Reloaded 1 of 495 libraries in 849ms.
```