Dart Basics

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Which of the following is the correct way to declare a variable in Dart?

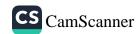
* (1 Point)

- A) int x = 10;
- B) varx = 10;
- C) intx;
- D) All of the above

6

What does the 'void' keyword in Dart signify? * (1 Point)

- A) The function will not return a value
- B) The function will return an integer
- C) The function will return a boolean
- D) The function will return a string



What does the this keyword refer to in Dart? * (1 Point)

A) The current object
B) The parent class
C) The method being invoked
D) The variable inside the method
11
What is the purpose of the super keyword in Dart? * (1 Point)
A) It refers to a parent class method or constructor
B) It refers to the current class
C) It refers to the superclass
D) It initializes a class object
12
What is the difference between final and const in Dart? * (1 Point)
A) final variables are assigned once and const variables are compile-time constants
B) final variables can be modified later, while const variables cannot
C) final is for objects, and const is for primitives
O) There is no difference



In Dart, how do you make a class member private? * (1 Point)

A) By prefixing the member name with an underscore "_"
B) By using the private keyword
C) By making the member final
D) By adding the private access modifier
14
What is an abstract method in Dart? * (1 Point)
A) A method that has no implementation and must be implemented by subclasses
B) A method that cannot be overridden
C) A method that is used to store abstract data
D) A method that has a fixed return type
15
What is the purpose of an enum in Dart? * (1 Point)
A) To represent a collection of variables
B) To define a set of named constants
C) To define a class with static methods
D) To store values of different types



How do you iterate over all the values of an enum in Dart? • (1 Point)
A) for (var day in Days.values) []
B) for (var day in Days()) {}
C) for (var day: Days) {]
D) for (var day in Days.allValues()) []
17 Can you extend an enum in Dart? * (1 Point)
A) Yes, enums can inherit from other enums
B) No, enums cannot be extended
C) Yes, but only if they are of type 'String'
D) Yes, enums can inherit from classes, not other enums
18 Which of the following statements about polymorphism in Dart is true? * (1 Point)
O Polymorphism can only be achieved by method overriding
Polymorphism allows objects of different classes to be treated as objects of a common superclass
O Polymorphism only works with static methods
Polymorphism in Dart can only occur at compile-time



What is the output of the following Dart code? * (1 Point)

```
void main() {
  Map<String, String> capitals = {'USA': 'Washington', 'France': 'Paris'};
  print(capitals['USA']);
}
```

- A) Washington
- B) Paris
- O C) USA
- O) null

23

What will be the output of this Dart code? * (1 Point)

```
void main() {
  var a = [1, 2, 3];
  var b = a;
  b[0] = 100;
  print(a);
}
```

- A) [1, 2, 3]
- (B) [100, 2, 3]
- O () [100, 2, 3, 0]

```
24
```

(A) 5

What will the following Dart code print? * (1 Point)

```
B) null
C) Error
D) 0

Back
Next
```

Never give out your password. Report abuse

```
void main() {
  int? x;
  print(x ?? 5);
}
```

```
Page 2 of 3
```



Flutter Level 1 Exam in GDG Al-Azhar



· Required

Flutter Basics

25

In Flutter, which widget is used to arrange children widgets horizontally? * (1 Point)

- O A) Column
- O D Container
- C) Rew
- O D) Stack

26

Which of the following widgets allows for a scrollable list of items in Flutter? * (1 Point)

- A) Limviere
- B) St. Men
- () Surcestle
- C) Sack

What coes the 'Scattold widget provide in a Flutter app?' (1 Point)

- A) A base isyout structure including an app bar, body, and bottom havigation bar

 B) A layout for positioning vilogets on top of each other.
- C) A layout for organizing villagets in a grid
- D) A container forwaspping content with pedding and margina

28

Which widget would you use to display a simple, unstyled text in Flutter? * (1 Point)

- O A Testfield
- D; Test
- C) Label
- C) RichText

In Flutter, which widget is used to havigate to a new screen? 1 (1 Point)	
● Aiflengetor	
D; Route	
C) Scaffold	
D) PageView	
32	
What is the purpose of the TextFormField widget in Flutter? * (1 Foint)	
A) To display static text that cannot be edited.	
B; To create a form field for text input with validation and formatting capabilities	
C) To create a button that submits uper input	
D) To display a list of relectable options for the user	
Which of the following methods can be used to load an image from the internet in Flutter? * (1 Point)	
A) Imagemeteratio	
R) Image asset()	
○ C) Imagefile()	
D) Imagementing C	

What the main difference between "MaterialAPPO" and "Scaffold")" widget? * (5 Points)

عبر بأسلوبك عربي او إنجليزي براحنك

دي عبارة عن الهيكل الاساسي للتطبيق material app لانها بتعتمد علي material design الموجودة ف فلاتر

د ي عباره عن الهيكل الاساسي لكل شاشه ا scaffold جبيهالك من الاخر يعني اقدر اشبها بالسفره لكن material app اقدر اشبها بالسفره لكن scaffold اقدر اشبهاا بالمفرش الى على السفرة



What the main difference between "Stateless wieget" and "Statefull wieget" ? * (5 Points)

عبر بأساوبك عرس او إبجليزي برحنك

رررمثل الصور و النصوص الثايته و هكذا من الاخر ثابته ui بدون حالة لا نتفير اثناء بناء ال <== statless ==> معينه state بيتفير كل ما تعمل ui ديناميكيه بتتفير بمرور الوقت بمعني ان ال <== statful ==>

```
rents thems taken (
base: Institute (
base: Inst
```



```
void main() {
 runApp(MaterialApp(
   home: Scaffold(
      appBar: AppBar(
        title: Text('GDG Al-Azhar'),
      ),
      body: Column(
        children: <Widget>[
          Text('Header Text'),
          Expanded(
            child: ListView(
              children: <Widget>[
                ListTile(title: Text('Item 1')),
                ListTile(title: Text('Item 2')),
                ListTile(title: Text('Item 3')),
              1,
            ),
          ),
        ],
      ),
    ١,
 ));
```

column جو listview ألمشكلة اني حاطط ياخد مساحه محدده من الشاشه columnوحالا ال ملهاش مساحه محدده list view و ال

error ف هیعمل column مش عارف یاخد مساحته جو listview لان



what the problems in this code and what the solutions to solve errors and warnings 1. (5 Points)



```
void main() {
 runApp(MaterialApp(
   home: Scaffold(
      appBar: AppBar(
        title: Text('TextFormField Validation Example'),
      ),
      body: Column(
        children: <Widget>[
          TextFormField(
            decoration: InputDecoration(
              labelText: 'Enter your email',
            ),
            validator: (value) {
              if (value.isEmpty) {
                return 'Email cannot be empty';
            },
          ),
        1
      ),
    ),
  ));
```

TextFormField لما بتستخدم validator ومعاه validator جه مش هيشغل ال

form فلازم تحطه جوا عشان تحقق من key و تستخدم ال



what the problem in this code and what the solution? (5 Points) عبر بأسنوبك عربي او إنجليزي برحنك

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```



```
class CounterPage extends StatelessWidget {
 int counter = 0;
 void _increment() {
    counter++;
 @override
 Widget build(BuildContext context) {
    return Column(
      children: <Widget>[
        Text('Counter: $counter'),
        ElevatedButton(
          onPressed: _increment,
          child: Text('Increment'),
        ),
      1
    );
```

```
StatelessWidget المكشله اني استخدمت
ف دہ مش ھینفع
ف هتغير الكلام ده ل
StatefulWidget
set state(){
counter++;
```

