

Assignment # 4 (Jawan Pakistan Mobile app dev Flutter)

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1) Install Flutter, make a project by “Flutter create projectname” and then run app by “flutter run”

and take screenshot.

```
Command Prompt
C:\Users\AMJAD>flutter create myapp_amjadali
Creating project myapp_amjadali...
  myapp_amjadali\lib\main.dart (created)
  myapp_amjadali\pubspec.yaml (created)
  myapp_amjadali\README.md (created)
  myapp_amjadali\test\widget_test.dart (created)
  myapp_amjadali\.gitignore (created)
  myapp_amjadali\.idea\libraries\Dart_SDK.xml (created)
  myapp_amjadali\.idea\libraries\KotlinJavaRuntime.xml (created)
  myapp_amjadali\.idea\modules.xml (created)
  myapp_amjadali\.idea\runConfigurations\main_dart.xml (created)
  myapp_amjadali\.idea\workspace.xml (created)
  myapp_amjadali\.metadata (created)
  myapp_amjadali\analysis_options.yaml (created)
  myapp_amjadali\android\app\build.gradle (created)
  myapp_amjadali\android\app\src\main\kotlin\com\example\myapp_amjadali\MainActivity.kt (
  myapp_amjadali\android\build.gradle (created)
```

```
Microsoft Windows [Version 10.0.19042.1237]
(c) Microsoft Corporation. All rights reserved.

C:\Users\AMJAD\myapp_amjadali>flutter run
Multiple devices found:
Chrome (web) • chrome • web-javascript • Google Chrome 94.0.4606.61
Edge (web) • edge • web-javascript • Microsoft Edge 94.0.992.31
[1]: Chrome (chrome)
[2]: Edge (edge)
Please choose one (To quit, press "q/Q"): 1
Launching lib\main.dart on Chrome in debug mode...
Waiting for connection from debug service on Chrome... 29.8s
This app is linked to the debug service: ws://127.0.0.1:63600/EwkbhH8cBUM=/ws
Debug service listening on ws://127.0.0.1:63600/EwkbhH8cBUM=/ws

Running with sound null safety

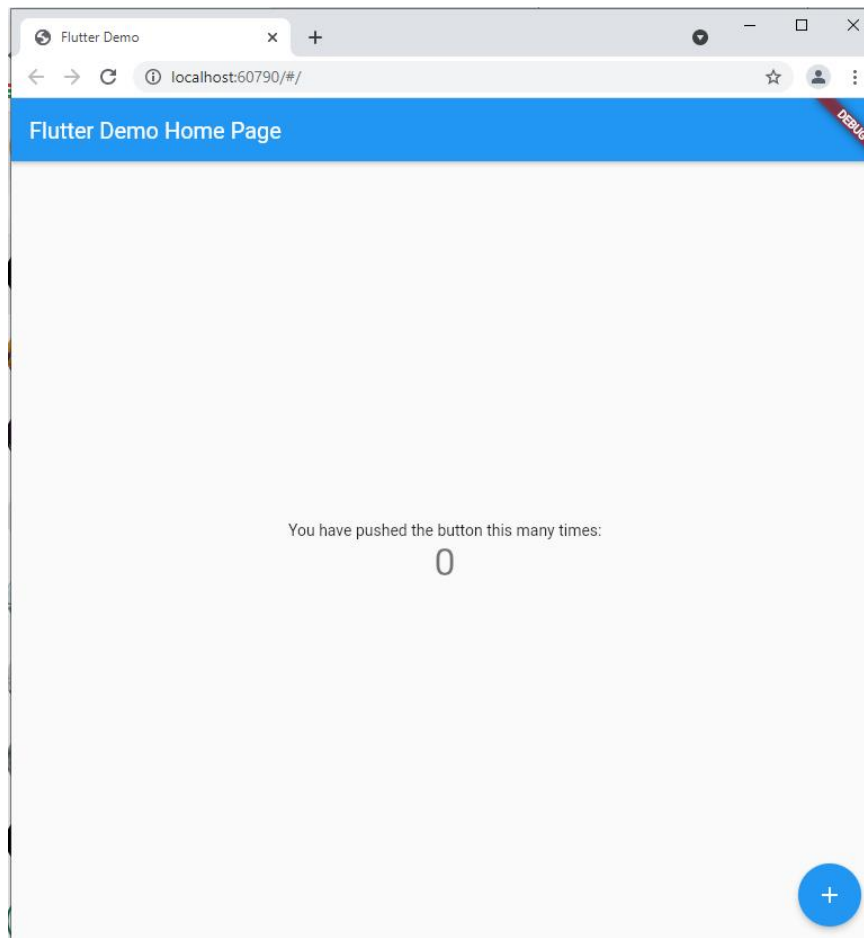
To hot restart changes while running, press "r" or "R".
For a more detailed help message, press "h". To quit, press "q".

An Observatory debugger and profiler on Chrome is available at: http://127.0.0.1:63600/EwkbhH8cBUM=
Activating Dart DevTools... 5.0s
The Flutter DevTools debugger and profiler on Chrome is available at:
http://127.0.0.1:9101?uri=http://127.0.0.1:63600/EwkbhH8cBUM=
```

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2) To make a function that take a number as parameter, and print the table of that number.

```
void main(List<String> arguments) {  
  print("*** Printing Table Using Function *** ");  
  number(7);  
}  
void number(int num){  
  for (var i = 1; i <=12; i++) {  
    print(" $num X $i = ${num*i}");  
  }  
}
```

PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE

*** Printing Table Using Function ***

```
7 X 1 = 7  
7 X 2 = 14  
7 X 3 = 21  
7 X 4 = 28  
7 X 5 = 35  
7 X 6 = 42  
7 X 7 = 49  
7 X 8 = 56  
7 X 9 = 63  
7 X 10 = 70  
7 X 11 = 77  
7 X 12 = 84
```

Exited

3) List lst = [2,4,6,8,9];

Make a function that takes a number as parameter and divide that parameter to every element

in the list

```
void main(List<String> arguments) {
  print("*** Dividing with given list *** ");
  number(7);
}
void number(int num){
  List lst=[2,4,6,8,9];
  for (var i = 0; i < lst.length; i++) {

    print("$num / by ${lst[i]} = ${num / lst[i]}");
  }
}
```

```
PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE
*** Dividing with given list ***
7 / by 2 = 3.5
7 / by 4 = 1.75
7 / by 6 = 1.1666666666666667
7 / by 8 = 0.875
7 / by 9 = 0.7777777777777778
Exited
```

4) Make a function for printing mark sheet then Make a list of at-least 5 names and another list of

their marks, and print the mark sheet of all of them.

```
void main(List<String> arguments) {
  List names = ['Waleed', 'Amjad', 'Danial', 'Hamza', 'Zaryab'];
  List<double> marks = [450, 488, 356, 299, 444];
  print(" ***** INSTITUTE JAWAN PAKSITAN *****");
  print(" ***** STUDENT'S MARKSHEET *****\n");

  for (var i = 0; i < 5; i++) {
    marksheet(names[i], marks[i]);
  }
}

void marksheet(String nam, double tmark) {
  double t_marks = tmark ;
  double prcnt = (t_marks/500)*100;
  String grade = 'NULL';
  if(prcnt >= 80){
    grade = 'A';
  }
  else if(prcnt < 80){
    grade = 'B';
  }
  else if(prcnt < 70 ){
```

Assignment # 4 (Jawan Pakistan Mobile app dev Flutter)

Amjad Ali Khan

Sec A batch 01

```
    grade = 'C';
  }
  else if(prcnt<60 ){
    grade = 'D';
  }
  else if(prcnt<50){
    grade = 'F';
  }
  print(" *****\n");
  print("NAME :: $nam ");
  print("TOTAL MARKS GAINED == $t_marks");
  print("          GRADE == $grade ");
  print("          PERCENTAGE % == $prcnt ");
}
```

PROBLEMS 2 OUTPUT TERMINAL DEBUG CONSOLE

```
***** INSTITUTE JAWAN PAKSITAN *****
***** STUDENT's MARKSHEET *****

*****

NAME :: Waleed
TOTAL MARKS GAINED == 450.0
          GRADE == A
          PERCENTAGE % == 90.0
*****

NAME :: Amjad
TOTAL MARKS GAINED == 488.0
          GRADE == A
          PERCENTAGE % == 97.6
*****

NAME :: Danial
TOTAL MARKS GAINED == 356.0
          GRADE == B
          PERCENTAGE % == 71.2
*****

NAME :: Hamza
TOTAL MARKS GAINED == 299.0
          GRADE == B
          PERCENTAGE % == 59.8
*****

NAME :: Zaryab
TOTAL MARKS GAINED == 444.0
          GRADE == A
          PERCENTAGE % == 88.8
Exited
```

5) Make a function in class and then call it outside class.

```
void main(List<String> arguments) {
  car c1 = new car();
  c1.tyre();
}
class car {

void tyre(){
  print("i have 4 tyres");
}
}
```

6) Print your name in a sentence using classes.

```
void main(List<String> arguments) {
  Myself obj = new Myself();
  obj.name();
}
class Myself {
void name(){
  print("Hi there, My name is Amjad Ali Khan");
}
}
```

PROBLEMS 2 OUTPUT TERMINAL DEBUG CONSOLE

```
Hi there, My name is Amjad Ali Khan
Exited
```

7) Make a constructor that requires your name, age, education and then print that.

```
void main(List<String> arguments) {
  Myself obj = Myself("Amjad", 21, "Undergraduate");
  obj .display();
}
class Myself {
late String name;
late int age;
late String education;

  Myself(this.name, this.age, this.education );
  display(){
    print("my name is $name");
    print("my age is $age");
  }
}
```

```
print("my Education is $education");  
}  
}
```

PROBLEMS 1 OUTPUT TERMINAL DEBUG CC

```
my name is Amjad  
my age is 21  
my Education is Undergraduate  
Exited
```

8) Write a Code using inheritance

```
void main(List<String> arguments){  
  animals obj =animals();  
  obj.properties();  
  obj.property();  
}  
  
class livingThing {  
  
  void properties(){  
    print("i can breathe");  
  
  }  
}  
class animals extends livingThing {  
  
  void property(){  
    print("i have 4 legs");  
  }  
}
```

PROBLEMS 4 OUTPUT TERMINAL DEBUG CC

```
i can breathe  
i have 4 legs  
Exited
```