

3.1. Create a class named Candidate with Candidate_ID, Candidate_Name, Candidate_Age, Candidate_ Weight and Candidate_Height data members. Also create a method GetCandidateDetails() and DisplayCandidateDetails(). Create main method to demonstrate the Candidate class. (A)

Code:

```
import "dart:io";
class Candidate {
 int candidateID = 0;
 String candidateName = "";
int candidateAge = 0;
 double candidateHeight = 0;
 double candidateWeight = 0;
 void getCandidate() {
  print("enter id of candidate:");
  candidateID = int.parse(stdin.readLineSync()!);
  print("enter candidate name:");
  candidateName = stdin.readLineSync()!;
  print("enter candidate age:");
  candidateAge = int.parse(stdin.readLineSync()!);
  print("enter candidate height:");
  candidateHeight = double.parse(stdin.readLineSync()!);
  print("enter candidate weight:");
  candidateWeight = double.parse(stdin.readLineSync()!);
 }
 void displayCandidateDetails() {
  print("candidate id is:$candidateID");
  print("candidate name is:$candidateName");
  print("candidate age is:$candidateAge");
  print("candidate height is:$candidateHeight");
  print("candidate weight is:$candidateWeight");
```

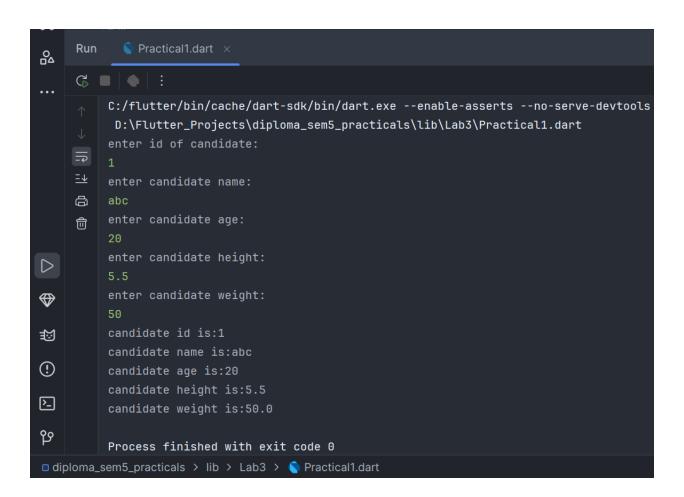


```
}

void main() {
  Candidate c1 = Candidate();
  c1.getCandidate();

c1.displayCandidateDetails();
}
```

Output:



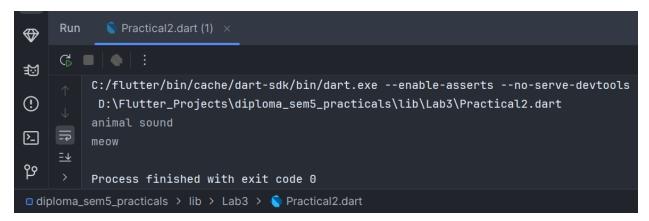


3.2. W.A.P. to create class Animal that has a method called animalSound() Subclass of Animals is cat it has its own implementation of an animal sound. (B)

Code:

```
class Animal {
 void animalSound() {
  print("animal sound");
 }
}
class Cat extends Animal {
 @override
 void animalSound() {
  print("meow");
 }
}
void main() {
 Animal a = Animal();
 a.animalSound();
 Cat c = Cat();
 c.animalSound();
}
```

Output:





3. W.A.P. to find friends detail by their name using dictionary. (Create local dictionary and search from it using Map & Model Class) (C)

Code:

```
import "dart:io";
class Friend {
String name;
int age;
Friend(this.name, this.age);
void display() {
 print("Name:$name");
  print("age:$age");
}
void main() {
Map<String, Friend> friends = {
  "abc": Friend("abc", 22),
  "xyz": Friend("xyz", 20),
  "asd": Friend("asd", 18)
};
print("enter search name:");
String searchName = stdin.readLineSync()!;
if (friends.containsKey(searchName)) {
  print("friend found");
  Friend friend = friends[searchName]!;
 friend.display();
}
}
```



Output:

