The Concept of Switch:

We use a switch to reduce the use of If Statement in the code. For example, if we have several conditions for the same variable here, it is better to use a switch

in short, we should use switch when there are nested conditional statements because it reduces a lot of complexity if we use the if conditional statement.

Ex:

```
void main() {
   var grade = "A";
   switch(grade) {
      case "A": {  print("Excellent"); }
      break;

      case "B": {  print("Good"); }
      break;

      case "C": {  print("Fair"); }
      break;

      case "D": {  print("Poor"); }
      break;

      default: { print("Invalid choice"); }
      break;
   }
}
```

Using 4 types of functions:

Function types are

1/ function with no parameter & no return type.

2/function with parameter & no return type.

3/ function with NO parameter return type.

4/function with parameter return type.

```dart
void main(List<String> args){
printMyName("HananAlghamdi");


}
 void printMyName(String name){

  print("Welcome $name");

 }
```

```dart
void main(List<String> args){
printMyName("HananAlghamdi");
int grage1=myGpa(80, 60, 90, 100);
print(grage1);
}
 void printMyName(String name){

  print("Welcome $name");

 }

int myGpa(int A, int B, int C ,int D,){

int grade=A+B+C+D;
 return grade;
```

```
}
```

```
int sum(){

int a =2, b=4,c;
c=a+b;
return c;

}
```

```
double area(int r){

int a
a=4.15*r*r;
return a;

}
```