Flutter Course

1.variable and data type

2.Datastructure (list, set, map)

```
set2.addAll(set1);
```

```
var j = int.parse('1'); //to int
String oneto = 1.toString(); //"1"
var f3 = '${f.toUpperCase()} nor';
```



4.Funcation

```
void main() {
  print('j');
  print(sum(4, 7));
  print(multiply2(a: 9, b: 0));
  divide();
}
int sum(int a, int b) {
  return a + b;
}
int multiply(int aa, int bb) {
  return aa * bb;
}
//named required
int multiply2({required int a, required int b}) {
  return a*b;
}
//optional
double divide([int a=2,int b=1]) {
  return a/b;
}
```

```
bool outsidemain = true; // define outside call it anwhelre
void main() {
    //iside call it in main only
    var insidemain = true;

    //lexical scope
    void funcation() {
        //call it in fucation only
        var insidefuncation = true;

        //funcation inside funcation
        void nestedfun() {
            var insidenest = true;
            outsidemain;
            insidefuncation;
            insidefuncation;
            insidefuncation;
            // insidefuncatiom; //notworlk
            insidemain; //work well

            //call makaddin main
            var addl = makeAdder(2);
            addl(3); //add 2 to the input 3
            print(addl(3));
        }

        //funcation outsidemain
        Function makeAdder(int addBy) {
            //anonymosfuncation >no name like lambada in python
            return (int i) => addBy + i;
        }
}
```

```
print(2+5);
print(g == v);
print(7 >= 5);
```

8 controlflow&loop&switchcase

```
//if else
if (10>4)
{print ('10 is big');}
else if(7==10)
{print('7 equal 10');}
else{
  print('5 not equal 10');}
```

```
void main() {
//loop
    var books=['arabic', 'english', 'french'];

for (var i=0;i<books.length;i++)
    {
        print(books[i]);
    }
    //while loop
    int num=0;
    while(num<10){
        if(num%2==0) {
            print(num);
        }
        num++;
    }

//do while
    int i=10;
    do {
        print(i);
        i++;
    }

//false print do
    while(i>=20);
    {
        print("terminate");
    }
}
```

```
void main() {
    //break,containue
    print('n');
    int i = 0;
    while (i < 4) {
        if (i == 2) {
            break;
        }

    print('$i');
        i++;
    }

//contnos
while (i < 4) {
        if (i == 2) {
            i++;
            continue;
        }

    print('$i');
    i++;
    }
</pre>
```

```
void main() {
  //switchcase
  var grade="n";
  switch(grade) {
    case "A":{print("excellent");}
  break;
    case "B":{print("good");}
  break;
  case "c":{print("fair");}
  break;
  default:{print("notfound");}
  break;
}
```