**ASSIGNMENT#2**

**ANSWER#1**

**1) Arithmetic Operators**

Add(+),Subtract(-),Multiply(\*),Divide(/),Increment(++),Decrement(- -) and Modulo(%).

**2) Equality and Relational Operators**

Greater than(>),Lesser than(<),Greater than or equal to(>=),Lesser than or equal to(<=),Equality(==) and Not Equal(!=).

**3) Logical Operators**

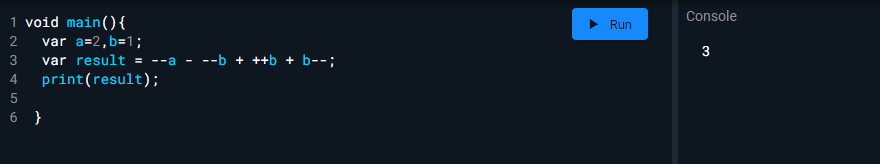
AND operator (&&), OR operator (!!) and NOT operator (!).

**ANSWER#2**

What will be the output in variables a, b & result after execution of the following script:

1. var a = 2, b = 1;
2. var result = --a - --b + ++b + b--;

**CODE:**



Explain the output at each stage:

1. --a;

1

1. --a - --b;

1

1. --a - --b + ++b;

2

1. --a - --b + ++b + b--;

3

**ANSWER#3**

Cost of one movie ticket is 600 PKR. Write a script to store ticket price in a variable & calculate the cost of buying 5 tickets to a movie.

**CODE:**

void main(){

var t\_cost=600;

var no\_of\_t=5;

var total\_cost=t\_cost\*no\_of\_t;

print("$total\_cost Rs");

}

**OUTPUT:**



**ANSWER#4**

How to get difference of lists in Dart? Problem: Consider you have two lists [1,2,3,4,5,6,7] and [3,5,6,7,9,10]. How would you get the difference as output? E.g. [1, 2, 4].

**CODE:**

void main() {

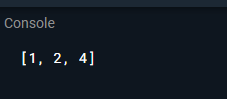
List<double> lst1=[1,2,3,4,5,6,7];

List<double> lst2=[3,5,6,7,9,10];

List<double> difference = lst1.toSet().difference(lst2.toSet()).toList();

print(difference.toString());

**OUTPUT:**



**ANSWER#5**

What is a difference between these operators “?? And?”

**“?”:**

If condition is true, then the expression evaluates expr1 (and returns its value); otherwise, it evaluates and returns the value of expr2.

**“??”:**

If expr1 is non-null, returns its value; otherwise, evaluates and returns the value of expr2

**CODE:**

void main() {

var a=10;

var b=null;

//Example of ?

var result= a>12 ? "Condition is true":"Condition is NOT true";

print(result);

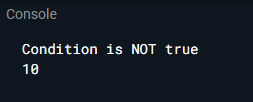
//Example of ??

var assign= b ?? a;

print(assign);

}

**OUTPUT:**



**ANSWER#6**

What are the data types supported in Dart? Explain with Examples

**CODE:**

void main() {

//String

String str="My name is Muhammad Rayyan";

print(str);

//Integer

int num1=2;

print(num1);

//Double

double num2=3.512;

print(num2);

//Num

num num3=num1+num2;

print(num3);

//Bool

String a="Rayyan";

String b="Anas";

bool ans = (a==b);

print(ans);

String c="Rayyan";

String d="Rayyan";

bool ans2 = (c==d);

print(ans2);

//List

var lst = List<int>.generate(4, (i) => i + 1);

print(lst);

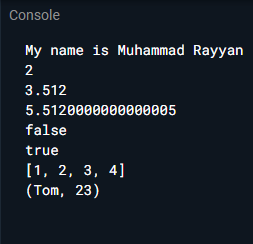
//Map

Map student = {'name':'Tom','age': 23};

print(student.values);

}

**OUTPUT:**



**ANSWER#7**

**CODE:**

void main() {

//Task7

int num=7;

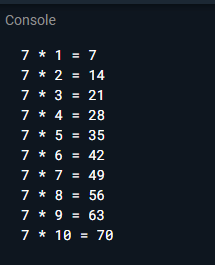
for(int i=1;i<11;i++)

{

print("$num \* $i = ${num\*i}");

}

**OUTPUT:**



**ANSWER#8**

**CODE:**

void main() {

//Task 8

var Actual\_Pass="rayyan786";

var Inp\_Pass="rayyan786";

if(Actual\_Pass==Inp\_Pass)

{

print("Correct! The password you entered matches the original password");

}

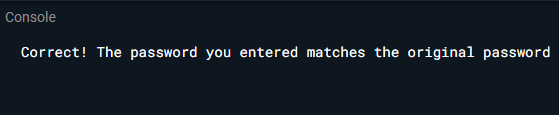
else{

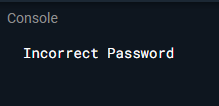
print("Incorrect Password");

}

}

**OUTPUT:**





**ANSWER#9**

**CODE:**

void main() {

var std\_lst=['Muhmmmad Rayyan','Fiasal Javed','Hamza Shabaz'];

var total\_num\_of\_std=[420,350,294];

int total\_marks=500;

;

for(int i=0;i<3;i++)

{

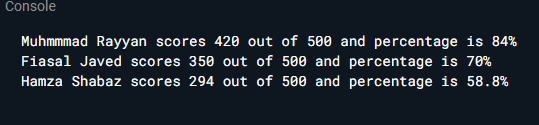
var per= (total\_num\_of\_std[i]/total\_marks)\*100;

print("${std\_lst[i]} scores ${total\_num\_of\_std[i]} out of $total\_marks and percentage is $per%");

}

}

**OUTPUT:**



**ANSWER#10**

**Illegal Variable Name:**

3faaf, 34, a$sd#, $add and \*ssvc;

**legal Variable Name:**

abc, abc\_1; maaz4, r$r ,AdeelHamza

**ANSWER#11**

**CODE:**

void main() {

var city= "Hyderabad";

var new\_word=city.replaceRange(0,5,'Islam');

print(new\_word);

}

**OUTPUT:**



**ANSWER#12**

**CODE:**

void main() {

var customer\_n="Muhammad Raayyn";

var current\_m="September";

num num\_of\_units=415;

num charges\_per\_unit=23.49;

num net\_amount=num\_of\_units\*charges\_per\_unit;

num late\_payment\_sucharge=818.07;

num grosss\_amount=net\_amount+late\_payment\_sucharge;

print("Customer Name: $customer\_n");

print("Current Month: $current\_m");

print("Number of Units: $num\_of\_units");

print("Charges per Unit: $charges\_per\_unit");

print("Net Amount Payable Within DueDate: $net\_amount");

print("Late Payment Surcharge: $late\_payment\_sucharge");

print("Gross Amount Payable After DueDate $grosss\_amount");

**OUTPUT:**

