**Assignment 2 flutter**

**Q1**

The following are the various types of operators in Dart:

Arithmetic Operators

Relational Operators

Type Test Operators

Bitwise Operators

Assignment Operators

Logical Operators

Conditional Operator

Cascade Notation Operator

void main()

{

    int a = 5;

    int b = 4 ;

    // Adding a and b

    var c = a + b;

    print("Sum of a and b is $c");

    // Subtracting a and b

    var d = a - b;

    print("The difference between a and b is $d");

    // Using unary minus

    var e = -d;

    print("The negation of difference between a and b is $e");

    // Multiplication of a and b

    var f = a \* b;

    print("The product of a and b is $f");

    // Division of a and b

    var g = b / a;

    print("The quotient of a and b is $g");

    // Using / to divide a and b

    var h = b / a;

    print("The quotient of a and b is $h");

    // Remainder of a and b

    var i = b % a;

    print("The remainder of a and b is $i");

}

**Q2**

1. 1
2. 1
3. 3
4. 3

**Q3**

void main() {

int ticketprice = 600;

int no = 5;

int a=ticketprice\*no;

print ('Price of 1 ticket is $ticketprice');

print ('Total no of ticket $no');

print ('Total price of ticket $a');

}

**Q4**

void main() {

List<int> a = [1,2,3,4,5,6,7];

List<int> b = [3,5,6,7,9,10];

List<int> c = a.toSet().difference(b.toSet()).toList();

print(c.toString());

}

**Q5:**

? dealing with values that might be null

??, which returns the expression on its left unless that expression’s value is null

**Q6:**

**Data Types**

**Number**

void main() {

   int num1 = 2;

   double num2 = 1.5;

   print(num1);

}

String

void main() {

   String name = “usama”;

   print(name);

}

 Boolean

String

void main() {

   int a = 1;

int b = 2;

bool c =a<2

print (c);

}

List

void main()

{

    List usa = new List(3);

    usa[0] = 'Usama';

    usa[1] = 'Bin';

    usa[2] = 'Rehman';

    print(usa);

    print(usa[0]);

}

Map:

void main() {

Map usa = new Map();

usa['First'] = 'I';

usa['Second'] = 'm';

usa['Third'] = 'usama';

print(usa);

}

**Q7:**

**A:**

void main()

{

Var array = new list(7);

}

**B:**

void main() {

List<int> arr = [1,2,3,4,5,6,7,8,9,10];

print(arr);

}

C:

**Q8**

import 'dart:io';

void main()

{

String password = "abc123"

print("Enter your password?");

String? password = stdin.readLineSync();

if password = "abc123"

{

print("password is correct")

}

else

{

print("you enterd an incorrect password retry ")

}

}

**Q9:**

void main() {

  int total = 100;

  List<int> score = [50,70,90];

  List<String> name = ['usama','waleed','saad'];

  print(total);

  print(score);

  print(name);

}

**Q10**

(legal): var69\_a \*

(illegal): 69var\_a

(legal): snake\_1 \*

(illegal): $nake#1

**Q11**

String city = "HYDERABAD"  
    String a= city.replaceAll("HYDER", "ISLAM");  
       
    print(a);

**Q12**

**void main()**

**{**

**int unit = 500;**

**double amt, total\_amt, sur\_charge;**

**double amt1=400;**

**double a;**

**print("------- Welcome to K.E --------");**

**print("Account no : 0001010");**

**print("House no : 416");**

**print("Address : abc xyz 123 456 karachi,Pakistan");**

**DateTime now = new DateTime.now();**

**print ("Due Date 30-SEP-2021");**

**print ("Current now = $now");**

**print("Total units consumed = $unit ");**

**if(unit <= 50)**

**{**

**amt = unit \* 0.50;**

**}**

**else if(unit <= 150)**

**{**

**amt = 25 + ((unit-50) \* 0.75);**

**}**

**else if(unit <= 250)**

**{**

**amt = 100 + ((unit-150) \* 1.20);**

**}**

**else**

**{**

**amt = 220 + ((unit-250) \* 1.50);**

**}**

**/\***

**\* Calculate total electricity bill**

**\* after adding surcharge**

**\*/**

**sur\_charge = amt \* 0.20;**

**total\_amt = amt + sur\_charge;**

**a=amt1+total\_amt;**

**print("Electricity Bill = $total\_amt PKR");**

**print("Electricity Bill After due date = $a PKR");**

**}**