Assignment 4

Dart Assignment 1 :

Data Types

1. Tye this code and write the explanation in your own words.

void main () {

int sh1 = 19;

int sh2 = 11;

int sh3 = sh1 + sh2;

print(sh3);

}

Explanation: main method is entry point for all code a will explain remains code

sh1 is a variable holds integer types of data 19 same as sh2 variable holds integer type of value 11, here declaration and assignment process done.

On third statement done addition operation and store result in sh3 integer type of variable and print final result sh3.

1. Tye this code and write the explanation in your own words.

void main () {

int sh1 = 19;

double sh2 = 11;

var sh3 = sh1 + sh2;

print(sh3);

}

Explanation: sh1 is a variable holds integer types of data 19 same as sh2 variable holds decimal double type of value 11, here declaration and assignment process done.

On third statement done addition operation and store result in var sh3 variable which is double type and print final result sh3.

1. Tye this code and write the explanation in your own words.

void main () {

int sh1 = 19;

double sh2 = 11;

int sh3 = sh1+ sh2;

print(sh3);

}

Explanation: sh1 is a variable holds integer types of data 19 same as sh2 variable holds decimal double type of value 11, here declaration and assignment process done.

On third statement done addition operation and store result in sh3 variable which is integere type and print final result sh3.

1. Tye this code and write the explanation in your own words.
2. void main() {
3. String str;
4. int x = 10;
5. double y = 20;
6. str = "${x + y}";
7. print(str);
8. }

Explanation:

Statement 1 : declare str string type of variable.

Statement 2,3: integer type of value holds in x and decimal value in y variable hold declare and assign.

Statement 4: create addition and store result in str in string format.

Statement 5: print str value.

5.Tye this code and write the explanation in your own words.

void main () {

bool valueFirst = 1;

bool valueSecond = 0;

print(valueFirst);

print(valueSecond);

}

Explanation:

Statement 1 , 2 : trying to store int value in boolean type of variable but this line hits error invalid assignment. Int type of value can’t assign to Boolean type of variable then rest of code not execute.

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Input-Output:

1]

import 'dart:io';

void main() {

  print("Enter your name");

  String name = stdin.readLineSync()!;

  print("Enter your age");

  int age = int.parse(stdin.readLineSync()!);

  print("Enter your dream company");

  String company\_name = stdin.readLineSync()!;

  print("My name is $name");

  print("My age is $age");

  print("My dream company name is $company\_name");

}

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2]

import 'dart:io';

void main() {

  print("Enter number :1");

  int number1 =

      int.parse(stdin.readLineSync()!); // Convert the input to an integer

  print("Enter number :2");

  int number2 =

      int.parse(stdin.readLineSync()!); // Convert the input to an integer

  print("Sum of two number is ${number1 + number2}");

}

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3]

import 'dart:io';

void main() {

  print("Enter principal amount (Rs):");

  int princlipalAmount =

      int.parse(stdin.readLineSync()!); // Convert the input to an integer

  print("Enter rate of intrest(%):");

  int rateOfIntrest =

      int.parse(stdin.readLineSync()!); // Convert the input to an integer

  print("Enter time (In years):");

  int time =

      int.parse(stdin.readLineSync()!); // Convert the input to an integer

  // Formula for simple intrest: (P\*R\*T)/100

  double simple\_intrest = (princlipalAmount \* rateOfIntrest \* time) / 100;

  print("Simple intrest is $simple\_intrest");

}

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4]

import 'dart:io';

void main() {

  print("Enter radius:");

  double radius = double.parse(stdin.readLineSync()!);

  double areaOfCircle = 3.14 \* radius \* radius;

  print("Area of Circle is $areaOfCircle");

}

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5]

import 'dart:io';

void main() {

  print("Enter number 1:");

  int number1 = int.parse(stdin.readLineSync()!);

  print("Enter number 1:");

  int number2 = int.parse(stdin.readLineSync()!);

  number1 = number1 + number2;

  number2 = number1 - number2;

  number1 = number1 - number2;

  print("Number 1 is: $number1");

  print("Number 2 is: $number2");

}

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6]

import 'dart:io';

void main() {

  print("Enter number :");

  int number = int.parse(stdin.readLineSync()!);

  if (number > 0) {

    print("$number is positive");

  } else if (number < 0) {

    print("$number is negative");

  } else {

    print("$number is zero");

  }

}

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7]

import 'dart:io';

void main() {

  print("Enter the number :1");

  int number1 = int.parse(stdin.readLineSync()!);

  print("Enter the number :2");

  int number2 = int.parse(stdin.readLineSync()!);

  if (number1 > number2) {

    print("$number1 is maximum than $number2 ");

  } else if (number1 < number2) {

    print("$number2 is maximum than $number1 ");

  } else {

    print("Both are equal");

  }

}

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8]

import 'dart:io';

void main() {

  print("Enter the number :");

  int number = int.parse(stdin.readLineSync()!);

  if (number % 2 == 0) {

    print("$number is even number");

  } else {

    print("$number is odd number");

  }

}