

Assignment no: $\underline{1}$

COURSE: FLUTTER

SUBMITTED TO: Sir Bilal Rehman

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SUBMISSION DATE: June 15, 2023

ASSIGNMENT SOLUTION CODE

```
import 'dart:io';
import 'dart:math';
void main(){
 int length = 5;
  int breadth = 6;
 if( length == breadth){
    print("It's a Square");
 else{
   print("It's a Rectangle");
// Question 2
  num age1 = 15;
  num age2 = 17;
  if(age1 > age2){
      print("Person 1 is Oldest");
      print("Person 2 is Youngest");
  else if(age1 < age2){</pre>
      print("Person 2 is Oldest");
      print("Person 1 is Oldest");
  else{
      print("Both have same age");
// Question 3
 int class_total = 16;
 int class_attended = 10;
  num attendence_percent = (class_attended/class_total) * 100;
 print("$attendence_percent %");
```

```
if(attendence_percent >= 75){
    print("He/She is allowed to sit in the exams");
 else{
   print("He/She is not allowed to sit in the exams");
 int year = 2023;
 if (year % 4 == 0){
   print("$year is a leap year");
 else{
   print("$year is not a leap year");
// Question 5
 num temp = 42;
 if (temp < 0){
   print("Freezing Weather");
 else if( temp > 0 && temp < 10){
   print("Very Cold Weather");
  else if( temp >= 10 && temp < 20){
   print(" Cold Weather");
 else if( temp >= 20 && temp < 30){
   print("Normal In Temp");
 else if( temp >= 30 && temp < 40){
   print("It's Hot");
 else{
   print("It's Very hOT");
// Question 6
String alpha = 'e';
```

```
if( alpha == 'a' || alpha == 'A' || alpha == 'e' || alpha == 'E' || alpha == 'i'
|| alpha == 'I' || alpha == 'o' || alpha == 'O' || alpha == 'u' || alpha == 'U'){
  print("$alpha is a vowel");
else{
  print("$alpha is a consonant");
// Question 7
  stdout.write("Enter Customer ID: ");
  String customer id = stdin.readLineSync()!;
  stdout.write("Enter Customer Name: ");
  int customer_name = int.parse(stdin.readLineSync()!);
  stdout.write("Enter no. of units used: ");
  num units_used= int.parse(stdin.readLineSync()!);
  num charges;
  if(units_used < 200){</pre>
    charges = 1.20;
  else if(units used >=200 && units used < 400){
    charges = 1.50;
  else if(units_used >=400 && units_used < 600){</pre>
    charges = 1.80;
  else{
    charges = 2.00;
  num bill = units used * charges;
  print("\n|-----|\n");
  print("Customer IDNO: $customer_id");
  print("Customer Name: $customer_name");
  print("Unit Consumed: $units used");
  print("Amount Charges @Rs. $charges per unit : $bill");
  print("Net Bill Amount : $bill");
```

```
Ouestion 8
// Get student details
 stdout.write("Enter student name: ");
 String name = stdin.readLineSync()!;
 stdout.write("Enter roll number: ");
 int rollNumber = int.parse(stdin.readLineSync()!);
 stdout.write("Enter class: ");
 String className = stdin.readLineSync()!;
 // Get marks for 5 subjects
 stdout.write("Enter marks for Subject 1: ");
 int subject1 = int.parse(stdin.readLineSync()!);
 stdout.write("Enter marks for Subject 2: ");
 int subject2 = int.parse(stdin.readLineSync()!);
 stdout.write("Enter marks for Subject 3: ");
 int subject3 = int.parse(stdin.readLineSync()!);
 stdout.write("Enter marks for Subject 4: ");
 int subject4 = int.parse(stdin.readLineSync()!);
 stdout.write("Enter marks for Subject 5: ");
 int subject5 = int.parse(stdin.readLineSync()!);
 // Calculate total marks and percentage
 int totalMarks = subject1 + subject2 + subject3 + subject4 + subject5;
 double percentage = (totalMarks / 500) * 100;
 // Determine grade based on percentage
 String grade;
 if (percentage >= 90) {
   grade = "A+";
 } else if (percentage >= 80) {
   grade = "A";
 } else if (percentage >= 70) {
   grade = "B";
 } else if (percentage >= 60) {
   grade = "C";
 } else if (percentage >= 50) {
   grade = "D";
  } else {
```

```
grade = "Fail";
  // Print marksheet
  print("\n|-----|\n");
  print("Student Name: $name");
  print("Roll Number: $rollNumber");
  print("Class: $className");
  print("Total Marks: $totalMarks");
  print("Percentage: ${percentage.toStringAsFixed(2)}%");
 print("Grade Obtained: $grade");
int number = 4;
if(number % 2 == 0){
 print("$number is an even number and");
 if(number % 5 == 0 ){
 print("$number is divisible by 5");
 else{
   print("$number is not divisible by 5");
else{
  print("$number is odd number and");
 if(number % 7 == 0 ){
 print("$number is divisible by 7");
 else{
   print("$number is not divisible by 7");
// Question 10
stdout.write("Enter first number : ");
num num1 = int.parse(stdin.readLineSync()!);
stdout.write("Enter first number : ");
num num2 = int.parse(stdin.readLineSync()!);
stdout.write("Enter first number : ");
num num3 = int.parse(stdin.readLineSync()!);
```

```
num greatest;
num lowest;
if(num1 > num2 && num1 > num3){
  greatest = num1;
 if(num2 > num3){
    lowest = num3;
 else{
    lowest = num2;
else if(num2 > num1 && num2 > num3){
 greatest = num2;
 if(num1 > num3){
   lowest = num3;
 else{
    lowest = num1;
else{
 greatest = num3;
  if(num1 > num2){
   lowest = num2;
 else{
    lowest = num1;
print("Gretest = $greatest \nLowest = $lowest");
// Question 11
num x = 16;
num root = pow(x, 1/2);
print("Root of $x is $root");
// Question 12
num centigrade = 35.5;
num fahrenheit = (centigrade * (9/5)) + 32;
```

```
print("Centigrade = $centigrade \nFahrenheit = $fahrenheit");
}
```