**Assignment 01**

**Flutter , Web & Mobile Application Development Course**

**Question 1:**

void main() {

int breth = 15;

int width = 12;

print("breath : $breth");

print("width : $width");

if (breth == width)

{

print("Yess , Its Square");

}

else

{

print("Yess , its Rectangle");

}

}

**Question 2:**

void main() {

int age1 = 12;

int age2 = 25;

print("age1 is : $age1");

print("age2 is : $age2");

if (age1 > age2)

{

print("The Age 1 is greater than Age 2");

}

else if (age1 == age2)

{

print("The Age 1 and Age 2 are equals");

}

else

{

print("The Age 2 is greater than Age 1");

}}

**Question 3:**

void main() {

int tclass = 32;

int tattendence = 20;

double per = (tattendence/tclass)\*100;

print("The total classes helds are : $tclass");

print("The total classes you attended are : $tattendence");

print("Your Attendence Percentage is : $per");

if (per >= 75)

{

print("Yess, you are allowed to sit in Examination");

}

else

{

print("You are not allowed to sit in Examination because of short of attendence ");

}

}

**Question 4:**

void main() {

int year = 2150015450;

if (year % 4 == 0)

{

if (year % 400 == 0)

{

print('$year is a leap year.');

}

else

{

print('$year is not a leap year.');

}

}

else

{

print('$year is not a leap year.');

}

}

**Question 5:**

void main() {

int temperature = 42;

if (temperature < 0)

{

print("Freezing weather");

}

else if (temperature >= 0 && temperature <= 10)

{

print("Very Cold weather");

}

else if (temperature > 10 && temperature <= 20)

{

print("Cold weather");

}

else if (temperature > 20 && temperature <= 30)

{

print("Normal in Temp");

}

else if (temperature > 30 && temperature <= 40)

{

print("It\'s Hot");

}

else

{

print("It\'s Very Hot");

}

}

**Question 6:**

void main() {

var alphabet = 'A';

if (alphabet == 'a' || alphabet == 'e' || alphabet == 'i' || alphabet == 'o' || alphabet == 'u')

{

print("The alphabet $alphabet is vowel");

}

else if (alphabet == 'A' || alphabet == 'E' || alphabet == 'I' || alphabet == 'O' || alphabet == 'U')

{

print("The alphabet $alphabet is vowel");

}

else

{

print("The alphabet $alphabet is consonent");

}

}

**Question 7:**

void main() {

int custId = 9389;

String custName = "M Faizan";

int unitsCons = 805454;

double chargePerUnit;

double billAmount;

if (unitsCons <= 199)

{

chargePerUnit = 1.20;

}

else if (unitsCons >= 200 && unitsCons < 400)

{

chargePerUnit = 1.50;

}

else if (unitsCons >= 400 && unitsCons < 600)

{

chargePerUnit = 1.80;

}

else

{

chargePerUnit = 2.00;

}

billAmount = unitsCons \* chargePerUnit;

print("Customer ID No: $custId");

print("Customer Name: $custName");

print("Units Consumed: $unitsCons");

print("Amount Charged @Rs. $chargePerUnit per unit: $billAmount");

print("Net Bill Amount: $billAmount");

}

**Question 8:**

void main() {

String stdName = "M Faizan";

int rollNumber = 9389 ;

String stdClass = "XII";

double maths = 95.5;

double english = 85.0;

double physics = 92.5;

double chemistry = 78.0;

double urdu = 88.5;

double tmarks = maths + english + physics + chemistry + urdu;

double percentage = (tmarks / (5 \* 100)) \* 100;

String grade;

if (percentage >= 90) {

grade = "A1";

} 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 = "F";

}

print("\n\*\*\*\*\*\*\*\*\*\* Mark Sheet \*\*\*\*\*\*\*\*\*\*");

print("Student Name: $stdName");

print("Roll Number: $rollNumber");

print("Class: $stdClass");

print("---------------------------------");

print("Maths: $maths");

print("English: $english");

print("Physics: $physics");

print("Chemistry: $chemistry");

print("Urdu: $urdu");

print("---------------------------------");

print("Total Marks: $tmarks");

print("Percentage: $percentage%");

print("Grade Obtained: $grade");

}

**Question 9:**

void main() {

int number = 4213216516;

print("The number to check is $number");

if (number % 2 == 0) {

print('The number is even.');

if (number % 5 == 0) {

print('The number is divisible by 5.');

} else {

print('The number is not divisible by 5.');

}

} else {

print('The number is odd.');

if (number % 7 == 0) {

print('The number is divisible by 7.');

} else {

print('The number is not divisible by 7.');

}

}

}

**Question 10:**

**(In Vs Code)**

import 'dart:io';

void main() {

stdout.write('Enter the first number: ');

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

stdout.write('Enter the second number: ');

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

stdout.write('Enter the third number: ');

int number3 = int.parse(stdin.readLineSync()!);

int greatestNumber = number1;

if (number2 > greatestNumber) {

greatestNumber = number2;

}

if (number3 > greatestNumber) {

greatestNumber = number3;

}

int lowestNumber = number1;

if (number2 < lowestNumber) {

lowestNumber = number2;

}

if (number3 < lowestNumber) {

lowestNumber = number3;

}

print('The greatest number is: $greatestNumber');

print('The lowest number is: $lowestNumber');

}

**Question 11:**

Void main()

{

Double num = 16;

Double sqrt = (num ^ (1/2));

Print(“The Square root of the $num is: $sqrt”);

}

**Question 12:**

void main() {

double celsius = 25;

double fahrenheit = (celsius \* 9/5) + 32;

print('$celsius degrees Celsius is equal to $fahrenheit degrees Fahrenheit.');

}