Smit assignment

Q.1: Create two integer variables length and breadth and assign values then

check if they are square values or rectangle values.

void main() {

num length = 5;

num breath = 4;

if(length == breath){

print("this is square");

}else{

print("this rectangle");

}

}

Q.2: Take two variables and store age then using if/else condition to determine

oldest and youngest among them.

num age1 = 24;

num age2 = 20;

if(age1 > age2){

print("this is oldest");

}else{

print("this is youngest");

}

Q.3: A student will not be allowed to sit in exam if his/her attendance is less

than 75%. Create integer variables and assign value:

Number of classes held = 16,

Number of classes attended = 10,

and print percentage of class attended.

Is student is allowed to sit in exam or not?

void main() {

num totalClasses = 16;

num classesAttended = 10;

num requiedPercentage = 75;

num percentage = (classesAttended/totalClasses)\*100;

print(percentage);

if(percentage >= requiedPercentage ){

//

print(" you are allowed inn the exam your classes attendance is ${percentage}");

}else{

print("you are not allowed in exam your class attendance is ${percentage}");

}

}

Q4: Write a program to convert Celsius to Fahrenheit .

i.e: Temperature in degrees Fahrenheit (°F) = (Temperature in degrees Celsius

(°C) \* 9/5) + 32

num tempCelcius = 40;

num tempConversion = ((tempCelcius) \* 9/5) + 32;

print("tempreture of celcius convert into Fahrenheit ${tempConversion} °F");

Q.5 Write a program to read temperature in centigrade and display a suitable

message according to temperature:

You have num variable temperature = 42;

Now print the message according to temperature:

temp < 0 then Freezing weather

temp 0-10 then Very Cold weather

temp 10-20 then Cold weather

temp 20-30 then Normal in Temp

temp 30-40 then Its Hot

temp >=40 then Its Very Hot

num 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(" Its Hot");

}else {

print("Its Very Hot");

}

Q.6: Write a program to check whether an alphabet is a vowel or consonant.

String alphabet = "a";

if(alphabet == "a" || alphabet == "e" || alphabet == "i" || alphabet == "o" || alphabet == "u" ){

print("it is vovels");

}else {

print("it is consonent");

}

Q7: Write a program to calculate root of any number.

i.e: √y = y½

num number = 4;

var result = sqrt(number);

print(result);

Q8: Create a marksheet using operators of at least 5 subjects and output

should have Student Name, Student Roll Number, Class, Percentage, Grade

Obtained etc.

i.e: Percentage should be rounded upto 2 decimal places only.

void main() {

num mathematics = 93; // out of 100

num physics = 85; // out of 100

num islamiat = 65; // out of 75

num urdu = 67; // out of 75

num english = 65; // out of 75

var studentName = "hammas shahzad shani";

num rollNumber = 015;

num classNumber = 10;

num calculation = mathematics + physics + islamiat + urdu + english;

double percentageCalculation = (calculation/425 ) \* 100;

String percentage = percentageCalculation.toStringAsFixed(2);

if(percentageCalculation >= 90){

print("studentName: ${ studentName}\nrollNumber: ${ rollNumber}\n classNumber: ${ classNumber}\n percentage: ${ percentage}%\n Your Grade is : A+");

}else if(percentageCalculation>= 80){

print("studentName: ${ studentName}\nrollNumber: ${ rollNumber}\n classNumber: ${ classNumber}\n percentage: ${ percentage}%\n Your Grade is : A1");

}else if(percentageCalculation >= 70){

print("studentName: ${ studentName}\n rollNumber: ${ rollNumber}\n classNumber: ${ classNumber}\n percentage: ${ percentage}%\n Your Grade is : A");

}else if(percentageCalculation >= 60){

print("studentName: ${ studentName}\nrollNumber: ${ rollNumber}\n classNumber: ${ classNumber}\n percentage: ${ percentage}%\n Your Grade is : B");

}else{

print("studentName: ${ studentName}\nrollNumber: ${ rollNumber}\n classNumber: ${ classNumber}\n percentage: ${ percentage}%\n you are fail");

}

}

num number = 35;

if(number%2 == 0 ){

if(number%5 == 0){

print("this number is divide by 5 ");

}else{

print("this number is not divide by 5 ");

}

print("this is even number ");

}else{

print("this is odd number");

if(number%7 == 0){

print("this is divisible by 7");

}else{

print("this is not divisible by 7 ");

}

}