



ASSIGNMENT NO: 1



NAME:	BILAL
FATHER NAME:	PEER MUHAMMAD
ROLL NO:	182210
COURSE:	FLUTTER
SUBMITTED TO:	BILAL REHMAN

1 | P a g e



Question 1:

Code:

```
void main(){
  int length = 20;
  int breadth = 20;
  if(length != breadth){
    print('It is a Rectangle');
  } else{
    print('It is a Square');
  }
}
```

```
void main(){
int length = 20;
int breadth = 21;
if(length != breadth){
print('It is a Rectangle');
} else{
print('It is a Square');
}
}
```

Output:

```
It is a Square Exited.
```

```
It is a Rectangle Exited.
```



Question 2:

Code:

```
void main() {{
    int age1 = 35;
    int age2 = 35;
    if (age1 > age2) {
        print('Person 1 is the oldest.');
        print('Person 2 is the youngest.');
    } else if (age1 < age2) {
        print('Person 2 is the oldest.');
        print('Person 1 is the youngest.');
    } else {
        print('Both persons are of the same age.');
    }
}</pre>
```

```
oid main() {
 int age1 = 25;
 int age2 = 30;
 if (age1 > age2) {
  print('Person 1 is the oldest.');
   print('Person 2 is the youngest.');
 } else if (age1 < age2) {
   print('Person 2 is the oldest.');
  print('Person 1 is the youngest.');
   print('Both persons are of the same age.');
roid main() {{
  int age1 = 35;
int age2 = 30;
if (age1 > age2) {
  print('Person 1 is the oldest.');
  print('Person 2 is the youngest.');
  print('Person 1 is the youngest.');
 } else {
  print('Both persons are of the same age.');
```

Output:

```
Both persons are of the same age.

Exited.
```

```
Person 2 is the oldest.

Person 1 is the youngest.

Exited.
```

```
Person 1 is the oldest.

Person 2 is the youngest.

Exited.
```



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Code:

Question 3:

Output:

```
Percentage of classes attended: 62.5%
Student is not allowed to sit in the exam due to low attendance.
Exited.
```

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Question 4:

Code:

```
void main() {{
    double temperatureCelsius = 33.6;
    double temperatureFahrenheit = (temperatureCelsius * 9/5) + 32;
    print('Temperature in Fahrenheit: $temperatureFahrenheit°F');
}
```

Output:

```
Temperature in Fahrenheit: 92.48°F
Exited.
```





Question 5:

Code:

```
void main() {{
    double 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');
    }
}</pre>
```

```
void main() {
   double temperature = 22;
   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');
   }
}</pre>
```

Output:

```
It's Very Hot
Exited.
```

```
Normal in Temp
```



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Question 6:

Code:

```
void main() {{
    String alphabet = 'c';
    if (alphabet == 'a' || alphabet == 'e' || alphabet == 'i' || alphabet == 'o' || alphabet == 'u') {
        print('$alphabet is a vowel.');
      } else {
        print('$alphabet is a consonant.');
    }
}
```

```
void main() {
   String alphabet = 'a';
   if (alphabet == 'a' || alphabet == 'e' || alphabet == 'i' || alphabet == 'o' || alphabet == 'u') {
      print('$alphabet is a vowel.');
   } else {
      print('$alphabet is a consonant.');
   }
}
```

Output:

```
c is a consonant.
```

```
a is a vowel.

Exited.
```



Question 7:

Code:

```
import 'dart:math';
Run|Debug
void main() {
   double number = 25;
   double squareRoot = sqrt(number);
   print('Square root of $number is: $squareRoot');
}
```

```
import 'dart:math';
Run|Debug
void main() {
  double number = 49;
  double squareRoot = sqrt(number);
  print('Square root of $number is: $squareRoot');
}
```

Output:

```
Square root of 25.0 is: 5.0 Exited.
```

```
Square root of 49.0 is: 7.0 Exited.
```



Question 8:

Code:

```
void main() {
 String studentName = 'Bilal';
 String rollNumber = '182210';
 String studentClass = '16';
 double subject1 = 85.5;
 double subject2 = 92.0;
 double subject3 = 78.5;
 double subject4 = 88.0;
 double subject5 = 94.0;
 double totalMarks = subject1 + subject2 + subject3 + subject4 + subject5;
 double percentage = (totalMarks / (5 * 100)) * 100;
 String grade;
 if (percentage >= 90) {
   grade = 'A';
 } else if (percentage >= 80) {
   grade = 'B';
 } else if (percentage >= 70) {
   grade = 'C';
 } else if (percentage >= 60) {
   grade = 'D';
 } else {
   grade = 'F';
 print('Mark Sheet:');
 print('Student Name: $studentName');
 print('Roll Number: $rollNumber');
 print('Class: $studentClass');
 print('-----
 print('Subject 1: $subject1');
 print('Subject 2: $subject2');
```

```
print('Subject 3: $subject3');
print('Subject 4: $subject4');
print('Subject 5: $subject5');
print('-----');
print('Total Marks: $totalMarks');
print('Percentage: ${percentage.toStringAsFixed(2)}%');
print('Grade: $grade');
}
```



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Output:



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Code:

Question 9:

```
void main() {
  int number = 14;
  if (number % 2 == 0) {
    if (number % 5 == 0) {
       print('$number is even and divisible by 5.');
    } else {
       print('$number is even but not divisible by 5.');
    }
} else {
    if (number % 7 == 0) {
       print('$number is odd and divisible by 7.');
    } else {
       print('$number is odd but not divisible by 7.');
    }
}
```

```
void main() {
  int number = 21;
  if (number % 2 == 0) {
    if (number % 5 == 0) {
        print('$number is even and divisible by 5.');
    } else {
        print('$number is even but not divisible by 5.');
    }
  } else {
    if (number % 7 == 0) {
        print('$number is odd and divisible by 7.');
    } else {
        print('$number is odd but not divisible by 7.');
    }
}
```

Output:

```
14 is even but not divisible by 5.

Exited.
```

```
21 is odd and divisible by 7.
Exited.
```



Question 10:

Code:

```
import 'dart:io';
Run | Debug
void main() {
  stdout.write('Enter the first number: ');
  double num1 = double.parse(stdin.readLineSync()!);
  stdout.write('Enter the second number: ');
  double num2 = double.parse(stdin.readLineSync()!);
  stdout.write('Enter the third number: ');
  double num3 = double.parse(stdin.readLineSync()!);
  double greatestNumber;
  if (num1 >= num2 && num1 >= num3) {
    greatestNumber = num1;
  } else if (num2 >= num1 && num2 >= num3) {
   greatestNumber = num2;
  } else {
    greatestNumber = num3;
  double lowestNumber;
  if (num1 <= num2 && num1 <= num3) {
    lowestNumber = num1;
  } else if (num2 <= num1 && num2 <= num3) {</pre>
    lowestNumber = num2;
  } else {
    lowestNumber = num3;
  print('Greatest Number: $greatestNumber');
  print('Lowest Number: $lowestNumber');
```

Output:

```
Enter the first number: 21
Enter the second number: 144
Enter the third number: 17
Greatest Number: 144.0
Lowest Number: 17.0
```