LAB 3

**Task 1**

Calculate the average age of class of five students prompt user to enter the age of each student?

**Task 2**

Write a program that takes four digits integer from user and shows the digits on the screen separately?

**Task 3**

Write a program that takes radius of a circle from the user and calculates the diameter, circumference and area of the circle and display the results?

Diameter = radius\*2

Area= 3.14\*radius\* radius

Circumference= 2\*3.14\*radius

**Task 4**

Rules of Precedence

Enter three integers & implement the following & notice results?

**Task 4**

State order of evaluation of the operators in each of the following C++ statements and show value of x after each statement is performed?

1. x=7+3\*6/2-1
2. x=2%2+2\*2-2/2
3. x=(3\*9\*(3+(9\*3/(3) ) ) );

**Task 5**

Program test the age of Amir and Amara ? decision using if condition

1. Using one if condition? cout<<”Amir age is greater than Amara”
2. Using two if condition? Find out who is elder amir or amara
3. Using if and else condition? Find out who is elder amir or amara

**Task 6**

Compare two integers using if statements? (Use all relational operators and equality operators)

**Task 7**

Take a number from user and tell user whether number is odd or even?

***Hint*** : *Use of modules operator might help..*

**Task 8**

Take a number from user and tell user whether number is odd or even?

***Hint:*** *Do not use modules operator, think of using divide operation instead… also think about integer truncation.*

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**Task 9**

Make a program that take student grade & tells you whether he is passing?

***Hint:*** *Use if statement. Passing marks are 60 or more, then modify that no one can put more than 100.*

**Task 10**

Modify ***task 9*** take student marks & tells you whether he is pass or fail?

***Hint:*** *Use if-else statement. Passing marks are 60 or more.*

**Task 10**

Modify ***task 10*** take student marks & tell him what grade he/she has achieved?

***Hint:*** *Use if-else statement. Grade A (90-100), Grade B (80-89), Grade C (70-79), Grade C (60-69), Grade F (if marks are less than 60)*

**Task 12**

Write program that reads 2 integers and determine & prints if first is multiple of second?

***Hint:*** *Use the modules operator*

**Task 13**

Write a program that reads in five integers and determines and print largest and smallest integer in the group?

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**Task 14**

What is your opinion about code as follow?

If( x>5)

If(y>5)

cout<<”x and y are >5”;

else

cout<<”x is <=5”;

If( x>5)

{

If(y>5)

cout<<”x and y are >5”;

}

else

cout<<”x is <=5”;