**Quiz# 1:** Answer the following question**s:**

1. How many function is allowed in C++ program?
2. How can we call the different functions give an example?
3. If the function returns value :
4. If the function does not returns value :

**Question 2**: Write function code

1. A function **IsEmployed** that ask the user if he employee or not and returns the answer(return 1 if yes or return 0 if Not).
2. Function **travelling\_test** takes the gender and the age and return true or false.

If it is male and above 18 he can travel, If it is a female and above 30 she can travel otherwise they **can’t** travel

1. Function **age** take the birth date and then calculate the age in year and the months and days for user and print them

**Example :**

Enter your birth year : 1990

You are 24 years old

288 Months , 8640 days .

1. a function called zeroSmaller() that is passed two int arguments and then sets the smaller of the two numbers to 0.
2. power() to raise a number m to a power n. The function takes a double value for m and int value for n and returns the result correctly.

**Question 3 : Trace** and **show the output** for the following program.

|  |  |
| --- | --- |
| #include <iostream>  using namespace std;  void dbl(int& a, int& b)  { a\*= 2;  b\*= 2; }  void trip(int a, int b)  { a\*=3;  b\*=3; }  int main(){  int x = 4, y = 6;  cout << "AT START:" << endl;  cout << "x= " << x << " y= " << y << endl; | //call the dbl function:  dbl(x,y);  cout << "AFTER DBL CALL:" << endl;  cout << "x= " << x << " y= " << y << endl;  //call the trip function:  trip(x,y);  cout << "AFTER TRIP CALL:" << endl;  cout << "x= " << x << " y= " << y << endl;  return 0;  } |

**Question 4 :** Change the following code ,convert the pass by value to **pass by reference**

#include <iostream>

using namespace std;

int absolute (int);// function prototype for absolute()

int main(){

int num, answer;

cout << "Enter an integer (0 to stop): "; cin >> num;

while (num!=0){

answer = absolute(num);

cout << "The absolute value of " << num << " is: " << answer << endl;

cin >> num; }

return 0; }

// Define a function to take absolute value of an integer

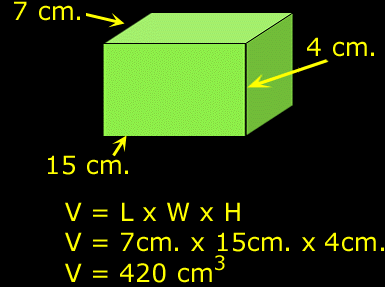
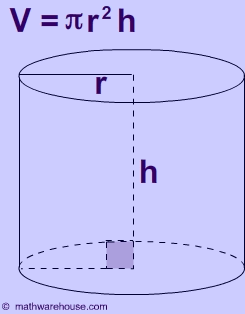
int absolute(int x){

if (x >= 0) return x;

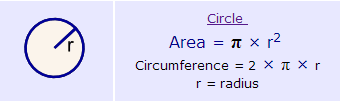
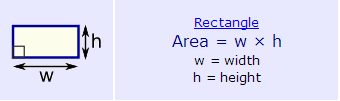
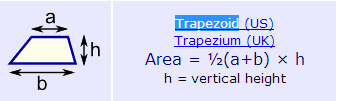
else return -x; }

**Question 5 :**

1. an overloaded function **print** to print 3 type of parameter one for int and one for double and the other for character.
2. Over loaded function **volume** to cal calculate the volume of cube and for cylinder and print the result.



Hit:

Write a function AREA to calculate the area of circle, rectangle and Trapezoid using function overloading and PRINT the result .

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| --- | --- |
|  |  |
|  | HINT :  pi = 3.14 |