1. **Write a C++ program** that asks the user to enter 2 numbers then displays a menu on the screen as shown below:

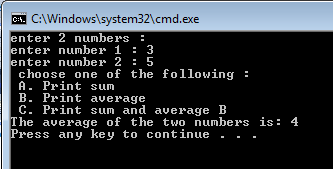
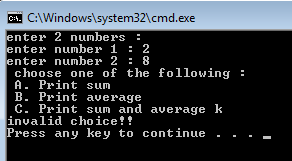
A. Print sum

B. Print average

C. Print sum and average

**The program reads the user’s option and then display the result.** Your code should recognize the invalid characters and display "invalid choice!!" message.

(use switch)

1. If ***inputChar*** is a variable of type char, use the switch statement below to answer questions:

switch (inputChar) {

case 'A':

case 'a':

cout<<inputChar<<endl;

case 'Z':

case 'z':

cout<<inputChar<<endl;

break;

default:

cout<<inputChar<<“ is not found”<<endl;

break;

}

* What is the output when inputChar is 'A'?
* What is the output when inputChar is 'B'?

1. **Trace the following programs**

#include <iostream>

using namespace std;

void main ()

{

int counter=1,var, result =0;

while (counter<= 5)

{

var= counter\*2;

cout<<var<<endl;

result+=var;

++ counter;

}

cout<<"the final result is " <<result<<endl;

}

#include <iostream>

using namespace std;

void main ()

{ int x=-2;

while (x<=5)

{ if (x%2 ==0)

cout << x<<"is even"<<endl;

else

cout << x<<"is odd"<<endl;

++ x;

}}

1. **Find and correct the errors in the following segments:**
   1. cin>>z;

while ( z >= 0 )

sum += z;

* 1. int c, p;

while(c<=5)

p \*=c;

++c;

* 1. for (x = 100,x >=1;x++);

cout << x;

* 1. the following code should output odd integers from 999 to 1:

for (x=999;x>=1;x-=1)

cout << x;

* 1. The following code should print the values 1 to 10.

n = 1;

while ( n < 10 )

cout << ++n << endl;