**IT3103 C++ Basic(practicals)**

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1. Write these programs save ,compile and run
   1. #include<iostream.h>

int main(){

cout<<"hello world"<<endl;

return 0;

}

* 1. Formatting 1

#include<iostream.h>

#include<iomanip.h>

int main(){

int var=85;

cout<<"About "<<setw(5)<<var<<setw(10)<<"\_dog"<<endl;

return 0;

}

* 1. Formatting 2

#include<iostream.h>

#include<iomanip.h>

int main(){

int var=85;

cout<<"About "<<setw(5)<<setfill('\*')<<var<<setw(10)<<setfill('?')<<"\_dog"<<endl;

return 0;

}

* 1. Using Mathematical functions

#include<iostream.h>

#include<iomanip.h>

#include<math.h>

int main(){

cout<<setprecision(5) <<sqrt(10)<<endl;

return 0;

}

* 1. Using variables

#include<iostream.h>

int main(){

int var;

var=85;

cout<<"I am "<<var<<"years old"<<endl;

return 0;

}

* 1. The following program demonstrates that char variables actually store the numeric code of a character

#include<iostream.h>

int main(){

char alph='B';

int j=alph;

cout<<"The ASCII code for"<<alph<<" is"<<j<<endl;

alph=alph+3;

j=alph;

cout<<"the ASCII code for"<<alph<<" is"<<j<<endl;

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return 0;

}

* 1. Conditional construct (if..else..)

Check whether input character is uppercase or lower case

* 1. Check whether input character is vowel or not
  2. Conditional construct (The switch ..case construct)

Repeat above examples

* 1. do.. while loops
* Fibonacci series between 1 and 200.( each number is the sum of its two preceding numbers. Series start with 1).

#include<iostream.h>

int main()

{

int num1=1,num2=1;

cout<<num1<<endl;

while(num2<200)

{

cout<<num2<<endl;

num2+=num1;

num1=num2-num1;

}

return 0;}

* You can enter number until enter input as ‘y’. Any other input is rejected by the function and end the loop.

1. For loop

* Find the sum of given positive numbers.
* Print following outputs

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1 2 3

2 3 4

3 4 5