Day 2

Code Blocks F9

#include <stdio.h>

#include <stdlib.h>

int main(){

printf("Hello World");

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main(){

printf("Hello World \n");

printf("How are you? \n");

printf("Goodbye");

return 0;

}

Note also \n for space, \a for alert, \t for tab, \\ for escape

// for single line comment

/\*

this is a

multiline

comment

\*/

Calculator - %d find int

#include <stdio.h>

#include <stdlib.h>

int main()

{

//declare three interger variables

int a;

int b;

int sum;

//assign values to variables

//N.B '=' is the symbol for ASSIGNMENT, not equivalent

a = 3;

b = 3;

sum = a + b;

printf("The sum of %d and %d is: %d", a, b, sum );

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{

//declare three interger variables

int a = 4;

int b = 4;

int sum;

//assign values to variables

//N.B '=' is the symbol for ASSIGNMENT, not equivalent

sum = a + b;

printf("The sum of %d and %d is: %d", a, b, sum );

return 0;

}

Calculate but can’t work with integers as possible remainder

#include <stdio.h>

#include <stdlib.h>

int main()

{

//declare three interger variables

int a = 4;

int b = 3;

int sum; // a + b

int product; // a \* b

int difference; // a - b

int ratio; // a / b

//assign values to variables

//N.B '=' is the symbol for ASSIGNMENT, not equivalent

sum = a + b;

product = a \* b;

difference = a - b;

ratio = a / b;

printf("The sum of %d and %d is: %d \n \n", a, b, sum );

printf("The product of %d and %d is: %d \n \n", a, b, product );

printf("The difference of %d and %d is: %d \n \n", a, b, difference );

printf("The ratio of %d and %d is: %d \n \n", a, b, ratio );

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{

//declare three interger variables

int a = 30;

int b = 4;

int sum; // a + b

int product; // a \* b

int difference; // a - b

float ratio; // a / b

//assign values to variables

//N.B '=' is the symbol for ASSIGNMENT, not equivalent

sum = a + b;

product = a \* b;

difference = a - b;

ratio = (float)a / (float)b;

printf("The sum of %d and %d is: %d \n \n", a, b, sum );

printf("The product of %d and %d is: %d \n \n", a, b, product );

printf("The difference of %d and %d is: %d \n \n", a, b, difference );

printf("The ratio of %d and %d is: %.2f \n \n -", a, b, ratio );

return 0;

}

Pi

#include <stdio.h>

#include <stdlib.h>

int main()

{

float pi = 3.141593;

printf("I ate some %f \n \n", pi);

printf("I ate some %.4f \n \n", pi);

printf("I ate some %02f \n \n", pi);

return 0;

}

Age Calculator

#include <stdio.h>

#include <stdlib.h>

int main()

{

int currentYear = 2015;

int zuckerBorn = 1984;

int babyGates = 1955;

int age;

//calculates how old Mark Zuckerburg is;

age = currentYear - zuckerBorn;

printf("Mark Zuckerburg is %d years old \n \n", age);

//here we reuse the age variable to compute how old Bill gates is;

age = currentYear - babyGates;

printf("Bill Gates is %d years old \n \n", age);

return 0;

}

User Input

#include <stdio.h>

#include <stdlib.h>

int main()

{

int currentYear = 2015;

int zuckerBorn = 1984;

int babyGates = 1955;

int age;

int userAge;

//User Input

printf("What year were you born in? (Press Enter when complete) \n \n");

scanf("%d", &userAge);

//here we reuse the age variable to compute how old Bill gates is;

system("cls");

age = currentYear - userAge;

printf("\n You are %d years old \n \n", age);

return 0;

}