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1. Write a program that asks the user for an integer. If the integer is odd, print out a message saying so. If it is even then print out a message accordingly.

#include <stdio.h>

#include <stdlib.h>

int main(int argc, const char \*argv[]) {

int num;

printf("Enter a number: "); //Ask user for integer

scanf("%d", &num); //Store user input

if (num % 2 == 0) //If input equals 0, true (EVEN). If input does not equal 0, false (ODD).

{

printf("The number you have entered is EVEN. \n");

}

else

{

printf("The number you have entered is ODD. \n");

}

return 0;

}

1. Write a program that asks the user for his/her age (integer). Calculate how many days this person has been alive (years \* 365 - ignore leap years). Based on your calculation, print out a message following this chart:

below 3500 “Child”

3501 - 6750 “Young Adult”

6751 - 10950 “Adult”

10951 - 14600 “Mid-life Crisis”

14601 - 18250 “Getting upthere”

above 18251 “Retired, hopefully”

#include <stdio.h>

#include <stdlib.h>

int main(int argc, const char \*argv[]) {

int age;

printf("Please enter your age: "); //Ask user for age input

scanf("%d", &age); //Stores users age input

printf("\n"); //print new line

int alive = age \* 365; //Calculates how many days person has been alive

printf("You have been alive for %d days. \n", alive); //Prints how many days been alive

//Prints message based on how old they are.

if (alive > 18251) {

printf("Retired, hopefully \n");

} else if (alive > 14601) {

printf("Getting upthere \n");

} else if (alive > 10951) {

printf("Mid-life Crisis \n");

} else if (alive > 6751) {

printf("Adult \n");

} else if (alive > 3501) {

printf("Young Adult \n");

} else {

printf("Child \n");

}

return 0;

}

1. Write a program that asks a user for one integer between 1 and 10 (inclusively). Write a switch statement writes out the number in english (i.e. 1 is “one”, etc).

#include <stdio.h>

#include <stdlib.h>

int main(int argc, const char \*argv[]) {

int num;

printf("Enter a number between 1-10 (inclusively): "); //Asks user enter # b/w 1-10

scanf("%d", &num); //Stores user input

//Prints out the integer entered in english.

switch(num) {

case 1:

printf("One \n");

break;

case 2:

printf("Two \n");

break;

case 3:

printf("Three \n");

break;

case 4:

printf("Four \n");

break;

case 5:

printf("Five \n");

break;

case 6:

printf("Six \n");

break;

case 7:

printf("Seven \n");

break;

case 8:

printf("Eight \n");

break;

case 9:

printf("Nine \n");

break;

case 10:

printf("Ten \n");

break;

default:

printf("Please enter a number between 1-10. \n");

}

return 0;

}

***The rest of these questions are code fragments, not programs. Dont compile these.***

1. Write a fragment for the following: If Z is not equal to 5 then add 12 to A. Otherwise, subtract 5 from A and add 5 to B.

if (Z != 5) { //if Z does not equal 5

A = A + 12; //add 12 to A

} else {

A = A - 5; //subtract 5 from A

B = B + 5; //add 5 to B

}

1. Write a fragment for the following: If X is greater than Y, AND Z is less than M, then add one to B. If not, the subtract one from B and add 12 to C.

if (X > Y && Z < M) { //if X > Y AND Z < M

B = B + 1; //add 1 to B

} else {

B = B - 1; //subtract 1 from B

C = C + 12; //add 12 to C

}

1. Write a fragment for the following: If J is true OR H > 5, multiply A and B and store the result in C. If not, then check to see if M = 6. If M **is not** equal to 6 then multiply B and C and store the result in A. Also, Add 5 to C. If M **is** equal to 6, then multiply A and C and store the result in B. Also, add 5 to D.

if (J || H > 5) { //if J is true or H > 5

C = A \* B; //multiply A & B, store in C

} else { //check if M equals 6

if(M != 6){ //if M does not equal 6

A = B \* C; //multiply B & C, store in A

C = C + 5; //also, add 5 to C

} else { //if M does equal 6

B = A \* C; //multiply A & C, store in B

D = D + 5; //also, add 5 to D

}

}