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CSC206 PRACTICE QUESTION III

28.#include <stdio.h>

int main() {

flaot radius;

float area, perimeter;

pritntf("What is your radius: ")

scanf("%f", &radius)

perimeter = 2\*3.14\*radius;

printf("Perimeter of the Circle = %f inches\n", perimeter);

area = 3.14\*radius\*radius;

printf("Area of the Circle = %f square inches\n", area);

return(0);

}

29.#include<stdio.h>

int main()

{

int uabs(int), x, y, result1, reslut2;

printf("Input a negative value: \n");

scanf("%d", &x);

printf("Input another negative value: \n");

scanf("%d", &y);

printf("Original value = %d", x);

result1= abs\_val(x);

result2= abs\_val(y);

printf("\nAbsolute value for first number= %d", result1);

printf("\nAbsolute value for second number= %d", result2);

return 0;

}

30.#include<stdio.h>

int main()

{

float a;

float b;

float c;

float d;

float e;

float product;

float avg;

printf("Input the price of the first product: ");

scanf("%f", &a);

printf("Input the price of the second product: ");

scanf("%f", &b);

printf("Input the price of the third product: ");

scanf("%f", &c);

printf("Input the price of the fourth product: ");

scanf("%f", &d);

printf("Input the price of the fifth product: ");

scanf("%f", &e);

product= a\*b\*c\*d\*e;

avg= (a+b+c+d+e)/5;

printf("The product of the five products is: %.2f\n", product);

printf("The average of the five products is: %.2f\n", avg);

return 0;

}

31.#include <stdio.h>

int main()

{

int x;

int a;

printf("Enter a value: \n");

scanf("%d",&x);

x++;

printf("value+1 : %d \n", x); //Incremented value

a=(x-2);

printf("Value-1 : %d \n", a); //decremented value

return 0;

}

32.#include<stdio.h>

int main()

{

int x;

int tax;

printf("Input your annual salary: ");

scanf("%d",&x);

tax =(20000-5000)\*0.15 +( x - 20000)\*0.3;

printf("Tax: %d", tax);

}

33.#include <stdio.h>

int main() {

int num;

printf("Enter an integer: ");

scanf("%d", &num);

if(num % 2 == 0)

printf("%d is even.", num);

else

printf("%d is odd.", num);

return 0;

}

34./\*A program that displays two integers in ascending order\*/

#include <stdio.h>

int main()

{

int a;

int b;

printf("Enter your first integer: \n");

scanf("%d", &a);

printf("Enter your second integer: \n");

scanf("%d", &b);

if(a<b)

{

printf("%d\n", a);

printf("%d\n", b);

}

else

{

printf("%d\n", b);

printf("%d\n", aa;

}

return 0;

}

35.#include<stdio.h>

int main() {

float weight;

float height;

float bmi;

printf("Enter your weight: \n");

scanf("%f", &weight);

printf("Enter your height: \n");

scanf("%f", &height);

bmi = weight/height;

printf("BMI index is : %.2f ",bmi);

if(bmi<20)

{

printf("Lower than normal weight\n");

if(20<=bmi<= 25)

{

printf("Normal weight\n");

if(25<=bmi<=30)

{

printf("Overweight\n");

if(30<bmi<= 40)

{

printf("Obese\n");

if(40<bmi )

{

printf("Extremely obese\n");

}

}

}

}

}

else

{

printf("Bro input something meaningful\n");

}

return 0;

}

36.#include <stdio.h>

int main() {

int a[5];

int i;

int greatest;

printf("Enter the prices of the five products:");

for (i = 0; i < 5; i++) {

scanf("%d", &a[i]);

}

greatest = a[0];

for (i = 0; i < 5; i++) {

if (a[i] > greatest) {

greatest = a[i];

}

}

printf("Greatest of the five products is %d", greatest);

return 0;

}

37. #include <stdio.h>

int main()

{

int i, j, a, number[3];

printf("Enter the grades of the student: \n");

for (i = 0; i < 3; ++i)

scanf("%d", &number[i]);

for (i = 0; i < 3; ++i)

{

for (j = i + 1; j < 3; ++j)

{

if (number[i] > number[j])

{

a = number[i];

number[i] = number[j];

number[j] = a;

}

}

}

printf("The position of the grades of the students: \n");

for (i = 0; i < 3; ++i)

printf("%d\n", number[i]);

}

38.#include <stdio.h>

int main()

{

int num;

printf("Enter any number: ");

scanf("%d", &num);

if(num > 0)

{

printf("Number is POSITIVE");

}

if(num < 0)

{

printf("Number is NEGATIVE");

}

if(num == 0)

{

printf("Number is ZERO");

}

return 0;

}

39./\*A program that reads grades\*/

#include<stdio.h>

int main()

{

int score;

printf("Enter your grade: ");

scanf("%d", &score);

if(score<=100 && score>=70)

{

printf("You got an A");

}

else if(score<=69 && score>=60)

{

printf("You scored a B");

}

else if(score<=59 && score>=50 )

{

printf("you scored a C");

}

else if(score<=49 && score>=40 )

{

printf("You scored a D");

}

else if(score<=39)

{

printf("You scored an F, any grade outside this should rewrite the exam");

}

return 0;

}