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Matric No: 18/sci01/064

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;

}