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MATRIC NUMBER: 18/SCI01/010

COURSE CODE: CSC206

REVISION QUESTIONS: PART 3

28) #include <stdio.h>

int main() {

int radius;

float area, perimeter;

radius = 6;

perimeter = 2\*3.14\*radius;

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

area = 3.14\*radius\*radius;

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

return(0);

}

29)

#include<stdio.h>

int main(){

int num1, num2, num3, num4;

num1 = -8;

num2 = -10;

num3 = -(num1);

num4 =-(num2);

printf("Corresponding positive values of %d and %d: %d and %d",num1,num2,num3,num4);

}

30)

#include <stdio.h>

int main()

{

double wi1, ci1, wi2, ci2, wi3, ci3, wi4, ci4, wi5,ci5, result;

printf("Cost of Item1: ");

scanf("%lf", &wi1);

printf("No. of item1: ");

scanf("%lf", &ci1);

printf("Cost of Item2: ");

scanf("%lf", &wi2);

printf("No. of item2: ");

scanf("%lf", &ci2);

printf("Cost of Item3: ");

scanf("%lf", &wi3);

printf("No. of item3: ");

scanf("%lf", &ci3);

printf("Cost of Item4: ");

scanf("%lf", &wi4);

printf("No. of item4: ");

scanf("%lf", &ci4);

printf("Cost of Item5: ");

scanf("%lf", &wi5);

printf("No. of item5: ");

scanf("%lf", &ci5);

result = ((wi1 \* ci1) + (wi2 \* ci2)+ (wi3 \* ci3)+ (wi4 \* ci4)+ (wi5 \* ci5)) / (ci1 + ci2 + ci3 + ci4 + ci5);

printf("Average Value = %f\n", result);

return 0;

}

31)

#include<stdio.h>

int main(){

int num1, num2, num3;

num2 = num1 - 1;

num3 = num1 + 1;

printf("Enter integer value:");

scanf("%d",num1);

printf("Previous number of %d is %d ", num1 ,num2);

printf("Next number of %d is %d ", num1 ,num3);

}

32) #include<stdio.h>

int main(){

double income,tax;

printf("Enter your Annual Income :");

scanf("%f",&income);

if(income >=0 && income <10000){

tax = income \* 0.0;

printf("Your tax is = %f", tax);

}

else if (income >= 10001 && income <=50000){

tax = 10000 \* 0.0 + (income - 50000) \* 0.15;

printf("Your tax is = %f", tax);

}

else if (income >= 50001){

tax = 10000 \* 0.0 + (10000 - 50000) \* 0.15 + (income - 50001) \* 0.30;

printf("Your tax is = %f", tax);

}

}

33) #include <stdio.h>

int main() {

int num;

printf("Enter an integer: ");

scanf("%d", &num);

// True if num is perfectly divisible by 2

if(num % 2 == 0)

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

else

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

return 0;

}

34) #include <stdio.h>

int main()

{

int x, y ;

printf("Input first Integer number :");

scanf("%d", &x);

printf("Input second Integer number: ");

scanf("%d", &y);

if (x > y)

{

printf("The ascending order of the two integers is %d ,%d",y, x);

}

else

{

printf("The ascending order of the two integers is %d ,%d", x,y);

}

return 0;

}

35) #include<stdio.h>

int main()

{

float height , weight , BMI;

printf("Enter specific height in meters:\n");

scanf("%f", &height);

printf("Enter specific weight in kilograms:\n");

scanf("%f",&weight);

BMI = weight/height;

printf("BMI is: %f",BMI);

if(BMI < 20)

{

printf("\n The weight is lower than normal");

}

else if (20 <= BMI && BMI <= 25)

{

printf("\n The weight is normal");

}

else if (25 < BMI && BMI <= 30)

{

printf("\n Overweight");

}

else if (30 < BMI && BMI <= 40)

{

printf("\n Obese");

}

else if (40 < BMI ){

printf("\n Extremely Obese");

}

}

36) #include <stdio.h>

int main()

{

int item1 ,item2, item3 ,item4 , item5;

printf("Cost of Item 1: ");

scanf("%d", &item1);

printf("Cost of Item 2: ");

scanf("%d", &item2);

printf("Cost of Item 3: ");

scanf("%d", &item3);

printf("Cost of Item 4: ");

scanf("%d", &item4);

printf("Cost of Item 5: ");

scanf("%d", &item5);

if(item1 > item2 && item1 > item3 && item1 > item4 && item1 > item5 )

{

printf("The highest Price is %d: ", item1);

}

else if (item2 > item1 && item2 > item3 && item2 > item4 && item2 > item5 )

{

printf("The highest Price is %d: ", item2);

}

else if (item3 > item1 && item3 > item2 && item3 > item4 && item3 > item5 )

{

printf("The highest Price is %d : ", item3);

}

else if (item4 > item1 && item4 > item2 && item4 > item3 && item4 > item5 )

{

printf("The highest Price is %d : ", item4);

}

else if (item5 > item1 && item5 > item2 && item5 > item3 && item5 > item4 )

{

printf("The highest Price is %d : ", item5);

}

return 0;

}

37)

38)

#include <stdio.h>

int main() {

double num;

printf("Enter a number: ");

scanf("%lf", &num);

if (num < 0.0)

printf("You entered a negative number.");

else if (num > 0.0)

printf("You entered a positive number.");

else

printf("You entered 0.");

return 0;

}

39)

#include<stdio.h>

void main()

{

int marks;

printf("Enter your marks ");

scanf("%d",&marks);

if(marks < 0 || marks > 100)

{

printf("Wrong Entry");

}

else if(marks < 39)

{

printf("Grade F");

}

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

{

printf("Grade D");

}

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

{

printf("Grade C");

}

else if(marks >= 69 && marks < 70)

{

printf("Grade B");

}

else if(marks >= 70 && marks < 100)

{

printf("Grade A");

}

else

{

printf("RETAKE THE EXAMINATION");

}

}