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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");

 }

}