**ALVIN CHUBUNDU OKORO-IJAGHA**

**18/Eng02/078**

**CSC 206**

**28)**

#include<stdio.h>

 int main() {

 int rad;

 float PI = 3.14, area, perimeter;

 printf("\nEnter radius of circle: ");

 scanf("%d", &rad);

 area = PI \* rad \* rad;

 printf("\nArea of circle : %f ", area);

 perimeter = 2 \* PI \* rad;

 printf("\nperimeter : %f ", perimeter);

 return (0);

}

**29)**

#include<stdio.h>

int main()

{ int a, b,c,d;

 printf("Enter two negative integers\n ");

 scanf("%d %d",&a,&b);

 c=(-a);

 d=(-b);

 printf("\nYour positive positive are: %d %d ",c,d);

 return 0;}

**30)**

#include<stdio.h>

int main()

{

 int a, b, c, d, e, prd;

 double avg;

 printf("Enter the the prices of 5 products:\n");

 scanf("%d %d %d %d %d",&a, &b, &c, &d, &e);

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

 prd = (a\*b\*c\*d\*e);

 printf("\nYour average price is: %lf",avg);

 printf("\nThe product of the prices is: %d",prd);

 return 0;

}

**31)**

#include<stdio.h>

int main()

{

 int a,b,c;

 printf("enter a positive integer\n");

 scanf("%d",&a);

 b=a+1;

 c=--a;

 printf("Next value: %d",b);

 printf("\nPrevious value: %d",c);

 return 0;

}

**32)**

#include<stdio.h>

int main()

{

 int a;

 double tax;

 printf("Enter your annual salary: ");

 scanf("%d",&a);

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

 printf("\nYour tax to be paid is: %lf", tax);

 return 0;

}

**33)**

#include<stdio.h>

int main ()

{

 int a;

 printf("enter an integer value:");

 scanf("%d",&a);

 if (a%2==0)

 printf("Even number");

 else

 printf("Odd number");

 return 0;

}

**34)**

#include<stdio.h>

int main ()

{

 int a,b;

 printf("enter two integer value:");

 scanf("%d %d",&a,&b);

 if (a>b)

 printf("%d %d",b, a);

 else

 printf("%d %d",a, b);

 return 0;

}

**35)**

#include<stdio.h>

int main()

{

 double height, weight, BMI;

 printf("Enter your weight(kg) and height(m):");

 scanf("%lf %lf",&weight, &height);

 BMI = ((weight)/(height\*height));

 if(BMI<20)

 printf("Your BMI is %lf and you are lower than normal weight",BMI);

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

 printf("Your BMI is %lf and you are normal weight",BMI);

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

 printf("Your BMI is %lf and you are overweight",BMI);

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

 printf("Your BMI is %lf and you are obese",BMI);

 else if(40<BMI)

 printf("Your BMI is %lf and you are extremely obese",BMI);

 else

 printf("You are not in any class");

 return 0;

}

**36)**

#include<stdio.h>

int main()

{

 int a, b, c, d, e;

 printf("Enter the prices of products: \n");

 scanf("%d %d %d %d %d",&a, &b ,&c, &d, &e);

 if(a>b && a>c && a>d && a>e)

 printf("The highest price is %d",a);

 else if(b>a && b>c && b>d && b>e)

 printf("The highest price is %d",b);

 else if(c>b && c>a && c>d && c>e)

 printf("The highest price is %d",c);

 else if(d>b && d>c && d>a && d>e)

 printf("The highest price is %d",d);

 else if(e>b && e>c && e>d && e>a)

 printf("The highest price is %d",e);

 else

 printf("They are equal prices");

}

**37)**

#include<stdio.h>

int main()

{

 int a, b, c;

 printf("Enter students grades: \n");

 scanf("%d %d %d",&a, &b ,&c);

 if(a>b && a>c && b>c )

 printf("%d %d %d",c,b,a);

 else if(b>a && b>c && c>a )

 printf("%d %d %d",a,c,b);

 else if(c>a && c>b && a>b )

 printf("%d %d %d",b,a,c);

 else

 printf("EQUAL GRADES");

}

**38)**

#include<stdio.h>

int main()

{

 int a;

 printf("Enter any integer \n");

 scanf("%d",&a);

 if(a<0)

 printf("Negative integer");

 else if(a==0)

 printf("ZERO");

 else

 printf("Positive integer");

}

**39)**

int main()

 {

 int x;

 printf("Enter student score");

 scanf("%d",&x);

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

 {

 printf("A");

 }else if(x>=60 && x<69)

 {

 printf("B");

 }else if (x>=50 && x<59)

 {

 printf("C");

 }else if(x>=40 && x<49)

 {

 printf("D");

 }else if(x<39)

 {

 printf("F");

 }else

 printf("RE-WRITE THE EXAM");

 return 0;