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18/SCI01/069

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;
```