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MATRIC NUMBER: 19/sci01/099

DEPARTMENT: Computer Science 200Level

28) #include<stdio.h>

```
int main()
```

```
{
```

```
    int r;
```

```
    float PI = 3.1416, perimeter, area;
```

```
    printf("Enter radius of circle: ");
```

```
    scanf("%d", &r);
```

```
    area= PI * r * r;
```

```
    perimeter = 2 * PI * r;
```

```
    printf("The area of the circle with radius %d is: %f\n", r, area);
```

```
    printf("The perimeter of the circle with radius %d is: %f\n", r, perimeter);
```

```
    return 0;
```

```
}
```

29) #include<stdio.h>

```
int main()
```

```
{
```

```
    int num1 = -5, num2 = -9;
```

```
    int num4 = -num1, num5 = -num2;
```

```
printf("The positive values of %d and %d are: %d and %d", num1, num2, num4,  
num5);
```

```
return 0;
```

```
}
```

```
30) #include<stdio.h>
```

```
int main()
```

```
{
```

```
int pro1, pro2, pro3, pro4, pro5, product;
```

```
float average;
```

```
printf("Enter the price of item 1: ");
```

```
scanf("%d", &pro1);
```

```
printf("\nEnter the price of item 2: ");
```

```
scanf("%d", &pro2);
```

```
printf("\nEnter the price of item 3: ");
```

```
scanf("%d", &pro3);
```

```
printf("\nEnter the price of item 4: ");
```

```
scanf("%d", &pro4);
```

```
printf("\nEnter the price of item 5: ");
```

```
scanf("%d", &pro5);
```

```
product = pro1 * pro2 * pro3 * pro4 * pro5;
```

```
average = product/5 ;
```

```
printf("The product of the five items is: %d \n", product);
```

```
printf("The average of the five items is: %f \n", average);
```

```
return 0;
```

```
}
```

```
31) #include<stdio.h>
```

```
int main()
```

```
{
```

```
int num2, num1, num3;
```

```
printf("Enter any integer value: ");
```

```
scanf("%d", &num2);
```

```
num3 = num2 + 1;
```

```
num1 = num2 - 1;
```

```
printf("The previous integer value of %d is: %d", num2, num1);
```

```
printf("\nThe next integer value of %d is: %d", num2, num3);
```

```
return 0;
```

```
}
```

```
32) #include<stdio.h>
```

```
int main()
```

```
{
```

```
double income, tax;
printf("Enter annual income: ");
scanf("%lf", &income);

if(income <= 10000)
{
    tax = income * 0.0;
    printf("Your tax is: %lf, No tax!");
}

else if(income >=10001 && income <= 50000)
{
    tax = 10000 * 0.0 + (income - 50000 ) * 0.15;
    printf("Your tax is: %lf", tax);
}

else if(income >= 50001)
{
    tax = 10000 * 0.0 + (10001 - 50000) * 0.15 + (income - 50000 ) * 0.30;
    printf("Your tax is: %lf", tax);
}

return 0;
}

33) #include<stdio.h>

int main()
```

```
{
    int num;
    printf("Enter any integer value: ");
    scanf("%d", &num);

    if(num % 2 == 0)
    {
        printf("%d is an even number", num);
    }
    else{
        printf("%d is an odd number", num);
    }
    return 0;
}
```

```
34) #include<stdio.h>
```

```
int main()
```

```
{
    int num1, num2;

    printf("Enter an integer value: ");
    scanf("%d", &num1);
    printf("Enter another integer value: ");
    scanf("%d", &num2);
```

```
if(num1 > num2)
{
    printf("The ascending order of the two integers is: %d,%d", num2, num1);
}
else{
    printf("The ascending order of the two integers is: %d,%d", num1, num2);
}
return 0;
}
```

```
35) #include<stdio.h>
```

```
int main()
```

```
{
```

```
int num1, num2;
```

```
printf("Enter an integer value: ");
```

```
scanf("%d", &num1);
```

```
printf("Enter another integer value: ");
```

```
scanf("%d", &num2);
```

```
if(num1 > num2)
```

```
{
```

```
printf("The ascending order of the two integers is: %d,%d", num2, num1);
```

```
}
```

```
else{
```

```
    printf("The ascending order of the two integers is: %d,%d", num1, num2);
}
return 0;
}
```

```
36) #include<stdio.h>
```

```
int main()
```

```
{
```

```
    int item1, item2, item3, item4, item5;
```

```
    printf("Enter the price of item 1: ");
```

```
    scanf("%d", &item1);
```

```
    printf("Enter the price of item 2: ");
```

```
    scanf("%d", &item2);
```

```
    printf("Enter the price of item 3: ");
```

```
    scanf("%d", &item3);
```

```
    printf("Enter the price of item 4: ");
```

```
    scanf("%d", &item4);
```

```
    printf("Enter the price of item 5: ");
```

```
    scanf("%d", &item5);
```

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

```
    {
```

```
        printf("The highest price is %", 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) #include<stdio.h>
```

```
int main()
```

```
{
    int grade1, grade2, grade3;
    printf("Enter the grade of student 1: ");
    scanf("%d", &grade1);
    printf("Enter the grade of student 2: ");
```



```
scanf("%d", &grade2);
```

```
printf("Enter the grade of student 3: ");
```

```
scanf("%d", &grade3);
```

```
if(grade1 < grade2 && grade1 < grade3)
```

```
{
```

```
    printf("The lowest grade is %d", grade1);
```

```
}
```

```
else if(grade2 < grade1 && grade2 < grade3)
```

```
{
```

```
    printf("The lowest grade is %d", grade2);
```

```
}
```

```
else if(grade3 < grade1 && grade3 < grade2)
```

```
{
```

```
    printf("The lowest grade is %d", grade3);
```

```
}
```

```
if(grade2 > grade1 && grade1 > grade3 || grade3 > grade1 && grade1 >  
grade2)
```

```
{
```

```
    printf("\nThe middle grade is %d", grade1);
```

```
}
```

```
else if(grade1 > grade2 && grade2 > grade3 || grade3 > grade2 && grade2 >  
grade1)
```

```
{
    printf("\nThe middle grade is %d", grade2);
}

else if(grade1 > grade3 && grade3 > grade2 || grade2 > grade3 && grade3 >
grade1)
{
    printf("\nThe middle grade is %d", grade3);
}

if(grade1 > grade2 && grade1 > grade3)
{
    printf("\nThe highest is %d", grade1);
}

else if(grade2 > grade3 && grade2 > grade1)
{
    printf("\nThe highest is %d", grade2);
}

else if(grade3 > grade1 && grade3 > grade1)
{
    printf("\nThe highest is %d", grade3);
}

getch();
return 0;
}
```

```
38) #include<stdio.h>
int main()
{
    int num;
    printf("Enter any integer value: ");
    scanf("%d", &num);
    if (num > 0)
        printf("%d is a positive integer.", num);

    else if (num < 0)
        printf("%d is a negative integer.", num);

    else if (num == 0)
    {
        printf("0", num);
    }
    return 0;
}
```

```
39) #include<stdio.h>
int main()
{
    int grade;
    printf("Enter your grade: ");
    scanf("%d", &grade);
```

```
if(grade>=70 && grade<=100)
{
    printf("Your grade is A");
}
else if(grade>=60 && grade<=69)
{
    printf("Your grade is B");
}
else if(grade>=50 && grade<=59)
{
    printf("Your grade is C");
}
else if(grade>=49 && grade<=40)
{
    printf("Your grade is D");
}
else if(grade>=39 && grade<=30)
{
    printf("Your grade is F");
}
else
{
    printf("You have to rewrite the exam");
}
```

```
}  
return 0;  
}
```