

Ques 1. write a paragraph in c to find sum of 2 numbers and display the result?

```
#include <stdio.h>
int main () {
    int a, b, sum;
    printf ("Enter the first number");
    scanf ("%d", &a);
    printf ("Enter the second number");
    scanf ("%d", &b);
    sum = a + b;
    printf ("Sum of two numbers is : %d", sum);
    return 0;
}
```

Ques 2. write a paragraph to find area of a circle?

```
#include <stdio.h>
int main () {
    float r, area;
    printf ("Enter the radius of circle");
    scanf ("%d", &r);
    area = 3.14 * r * r;
    printf ("Area of the circle is : %d");
    return 0;
}
```

Ques 3. Program to find volume of a sphere.

```
#include <stdio.h>
Void main () {
    float r, volume;
    printf ("Enter the radius of sphere");
    scanf ("%f", &r);
    volume = (4/3) * 3.14 * r * r * r;
    printf ("Volume of sphere : %d");
    return 0;
}
```

Ques4. Program to find area of a triangle?

```
#include <stdio.h>
void main(){
    float a,b,area;
    scanf("of ", &a);
    scanf(" of ", &b);
    area = 0.5 * a * b;
    printf("od ", area);
}
```

Ques5. Program without using any arithmetic operate to enter user & multiply by 2.

```
#include <stdio.h>
Void main(){
    int a, b;
    printf("Enter the number ");
    scanf("od ", &a);
    b = a << 1;
    printf("od ", b);
}
```

Ques6. Programs without using any arithmetic operate to enter user & divided by 2.

```
#include <stdio.h>
Void main(){
    int a, b;
    printf("Enter the number ");
    scanf("od ", &a);
    b = a >> 1;
    printf("od ", b);
}
```

Ques 7. Enter change the value using 3rd variable.

```
#include <stdio.h>
void main(){
    int a, b, z;
    printf("Enter the first value");
    scanf("%d", &a);
    printf("Enter second value");
    scanf("%d", &b);
    z = a;
    a = b;
    b = z;
    printf("%d %d", a, b);
}
```

Ques 8. To reverse of 3 digit number and check whether it is palindrome or not?

```
#include <stdio.h>
void main(){
    int a, b, c, rev, org;
    scanf("%d", &c);
    org = c;
    a = c % 10;
    b = c / 10;
    rev = a * 100 + b * 10 + c;
    printf("%d", rev);
    if (rev == org)
        printf("palindrome");
    else
        printf("not palindrome");
}
```

Ques 9. 3 digit number is whether number is armstrong or not?

include < stdio.h >

```
void main () {  
    int a, b, c, rev, org;  
    scanf (" %d ", & x );  
    org = x ;  
    a = x % 10 ;  
    b = x / 10 ;  
    c = x % 10 ;  
    rev = a * a * a + b * b * b + c * c * c ;  
    printf (" %d ", rev );  
    if ( rev == org )  
        printf (" Armstrong number ");  
    else  
        printf (" not armstrong number ");  
}
```

Ques 10. Enter the number of user and print reverse.

include < stdio.h >

```
void main () {  
    int num, rev ;  
    scanf (" %d ", & num );  
    org = num ;  
    while ( num > 0 )  
    {  
        rev = num % 10 ;  
        sum = num / 10 ;  
        rev = rev + sum ;  
    }  
    printf (" %d ", rev );
```

Ques 11. WAP to Swap the value of 2 variable using 3rd ?

```
# include <stdio.h>
Void main()
{
    int a, b, c;
    a = b;
    b = c;
    printf ("Enter a and b\n");
    scanf ("%d %d", &a, &b);
    c = a;
    a = b;
    b = c;
    printf ("After swapping is %d and %d", a, b);
    return 0;
}
```

Ques 12. WAP to calculate and print the area of rectangle & its parameter?

```
# include <stdio.h>
Void main()
{
    int a, b, l, p;
    l = 10;
    b = 5;
    a = l * b;
    p = 2 * (l + b);
    printf ("%d is the area of rectangle");
    printf ("%d is the perimeter of rectangle");
}
```

Ques 13. WAP to calculate simple interest by principal, rate and time of 1000, 8.5, 3, respectively

include < stdio.h >

```
void main () {  
    int p, n;  
    float R, SI = 0;  
    P = 1000;  
    N = 3;  
    R = 8.5;  
    SI = (P * R * N) / 100;  
    printf ("The SI is = %f", SI);  
}
```

Ques 14. By inputting values of principal, rate, & time
display SI?

include < stdio.h >

```
void main () {  
    int p, t;  
    float R, SI = 0;  
    printf ("Enter the principal, time & rate");  
    scanf ("%d %d %f", &p, &t, &R);  
    SI = p * R * t / 100;  
    printf ("The simple interest is = %f", SI);  
}
```

Ques 15. WAP to enter the value of given no. and then print
that value.

include < stdio.h >

```
void main () {  
    int a;  
    float b;  
    char c;  
    printf ("Enter values");  
    scanf ("%d %f %c", &a, &b, &c);  
    printf ("The value of a is %d", a);  
    printf ("The value of b is %f", b);  
    printf ("The value of c is %c", c);  
}
```

Ques 16. Ramish Basic Salary is input through the board his dearness allowance is 40 % of the basic salary and house rent allowance is 20 % of the basic salary. WAP to calculate its Gross (total) salary?

include < stdio.h >

```
void main () {  
    int bs, da, hra, tot-sal ;  
    printf ("Enter the basic salary ");  
    scanf ("%d", &bs);  
    da = 0.40 * bs ;  
    hra = 0.20 * bs ;  
    tot-sal = bs + da + hra ;  
    printf ("Total salary is %d ", tot-sal);  
}
```

Ques 17. The distance between two city in km is input through the keyword. WAP to convert and print this distance in metres and cm.

include < stdio.h >

```
void int main () {  
    int dis-km, dis-cm, dis-m;  
    printf ("Enter the distance in km ");  
    scanf ("%d", &dis-km);  
    dis-cm = 1000 * 100 * dis-km ;  
    dis-m = 1000 * dis-km ;  
    printf ("The distance in cm is %d ", dis-cm);  
    printf ("The distance in m is %d ", dis-m);  
}
```

Ques18. If the marks obtained by student in five different subjects are input through the keyboard. Find out the avg. marks obtained by the student. Assume that the maximum mark that can be obtained by the student in subject is 100;

```
#include <stdio.h>
Void main (){
    int M, P, C, E, CS, max;
    float avg;
    max = 100;
    printf ("Enter the marks of each subject");
    scanf ("%d %d %d %d %d", &M, &P, &C, &E, &CS);
    avg = (M + P + C + E + CS) / 5;
    printf ("The number avg of five sub. obt. by student
            is %f", avg);
```

Ques19. WAP to input certain no. through the key board and output the no. on the computer screen.

```
#include <stdio.h>
Void main (){
    int n;
    printf ("Enter the no. n/n");
    scanf ("%d", &n);
    printf ("The value of just entered was %d/n", n);
```

Ques20. WAP to calculate area of a rectangle and its perimeter by inputting length and breadth to the keyboard.

```
#include <stdio.h>
Void main (){
    int a, p, l, b;
    printf ("Enter the length and breadth ");
    scanf ("%d %d", &l, &b);
    print
```

Ques 21. Temp of a city in Fahrenheit is input through the keyboard. WAP to convert this temp in antigenite or celsius $c = \frac{5}{9}(f - 32)$?

include < stdio.h >

void main () {

float f, c;

printf ("Enter the temp. of city in Fahrenheit ");

scanf ("%f", &f);

printf ("The temp. of city in celsius is = %f", $\frac{5}{9}(f - 32)$);

}

Ques 22. If a four digit number is input through the keyboard write a program to obtain sum of digits.

include < stdio.h >

void main () {

int n, a, sum = 0;

printf ("Enter a four digit number ");

scanf ("%d", &n);

a = n / 1000;

sum = sum + a;

a = n % 10;

sum = sum + a;

printf ("The first and last digit is = %d, sum ");

}

Ques 23. WAP to enter a value less than 10 of x and print "Hello world" if x is equal to one more than 10 print "Hello".

```
#include <stdio.h>
void main ()
{
    int x;
    printf ("Enter the value of x");
    scanf ("%d", &x);
    if (x < 10)
        printf ("Hello world");
    else {
        printf ("Hello C");
    }
}
```

Ques 24. While purchasing certain item a discount of 10% is offered if the quantity purchased is more than 1000. If quantity and price (real) are input through the keyboard. WAP to calculate total expenses.

```
#include <stdio.h>
void main ()
{
    int qty, dis = 0;
    float price, tot;
    printf ("Enter the quantity and price");
    scanf ("%d %f", &qty, &price);
    if (qty > 1000)
        dis = 10;
    tot = (qty * price) - (qty * price * dis) / 100;
    printf ("The total expenses of d", tot);
}
else
{
    tot = (qty * price);
    printf ("The total expenses of d", tot);
}
```

Ques 25. WAP to print pattern ?

```
X  
xx  
xxx  
xxxx  
xxxxx x
```

```
#include <stdio.h>  
void main(){  
    int i, j;  
    for(i=1; i<=5; i++){  
        for(j=1; j<=i; j++)  
            printf("*");  
        printf("\n");  
    }  
}
```

Ques 26.

```
X X X X X  
X X X X  
X X X  
X X  
X
```

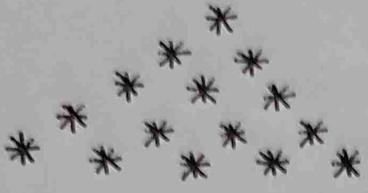
```
#include <stdio.h>  
void main(){  
    int i, j;  
    for(i=5, i>=1; i--){  
        for(j=1; j<=i; j++)  
            printf("*");  
        printf("\n");  
    }  
}
```

Ques 27.

```
*  
**  
***  
****  
*****
```

```
#include <stdio.h>  
void main(){  
    int i, j, k;  
    for(i=1; i<=5; i++){  
        for(j=4; j>=i; j--)  
            printf("*");  
        printf("\n");  
    }  
}
```

Aug 28.



```
#include <stdio.h>
void main () {
    int i, j, k, n = 5;
    for (i = 1; i <= n; i++) {
        for (k = n - 1; k >= i; k--)
            printf(".");
        for (j = 1; j <= i; j++)
            printf("*");
        printf("\n");
    }
}
```

Aug 29.

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

```
#include <stdio.h>
int main () {
    int i, j;
    for (i = 1; i <= 5; i++) {
        printf("odd", i);
    }
    printf("\n");
}
```

Aug 30.

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

```
#include <stdio.h>
int main () {
    int i, j;
    for (i = 1; i <= 5; i++) {
        for (j = 1; j <= i; j++)
            printf("odd", j);
        printf("\n");
    }
}
```

Ques 31.

```

0   # include <stdio.h>
-0  void main ()
0   int n=5;
1   int i,j;
0   for (i=1;i<=n;i++)
1   for (j=1;j<=i;j++)
0   printf ("%d",i+j);
1   printf ("%d\n");
0   }

```

Ques 32.

```

1   # include <stdio.h>
0   void main ()
1   int n=5;
0   int i,j;
1   for (i=1;i<=n;i++)
0   for (j=1;j<=i;j++)
1   printf ("%d",i+j);
0   printf ("%d\n");
1   }

```

Ques 32.

```

# include <stdio.h>
int main ()
char i,j;
for (i='A';i<='E';i++)
for (j='A';j<=i;j++)
printf ("%c",i+j);
printf ("\n");
}

```

Ques 34. Fibonacci no. series ?

```
# include <stdio.h>
void main()
{
    int n, i, a = 0, b = 1;
    int c = a + b;
    while (c <= n)
    {
        printf (" %d ", c);
        c = a + b;
        a = b;
        b = c;
    }
}
```

Ques 35. WAP to find the factorial of the number ?

```
# include <stdio.h>
void main()
{
    int i, m, fact = 1;
    printf (" Enter the number ");
    scanf (" %d ", &n);
    scanf ("%d", &n);
    for (i = 1; i <= n; i++)
    {
        fact = fact * i;
    }
    printf (" Factorial of %d is %d \n ", n, fact);
}
```

Ques 36. WAP to print factorial using function?

```
#include <stdio.h>
void main()
{
    long int factorial ( int n);
    void main ()
    {
        int n;
        printf ("Enter the number");
        scanf ("%d", &n);
        factorial (n);
    }
    long int factorial ( int n)
    {
        int fact = 1;
        for ( int i = 1; i <= n; i++)
        {
            fact = fact * i;
        }
        printf ("Factorial of the number is %d", fact);
    }
}
```

Ques 37. WAP to find whether num is prime or not?

```
#include <stdio.h>
Void main ()
{
    int i, n;
    int count = 0;
    printf ("Enter a number ");
    scanf ("%d", &n);
    for (i = 1; i <= n; i++)
    {
        if (n % i == 0)
            count++;
    }
    if (count == 2)
        printf ("odd is prime number", n);
    else
        printf ("odd is not a prime number", n);
}
```

Ques 38. WAP to swap without using third variable?

```
#include <stdio.h>
Void main ()
{
    int a, b;
    printf ("Enter ");
    scanf ("%d %d", &a, &b);
    a = a + b;
    b = a - b;
    a = a - b;
    printf ("After swapping a=%d, b=%d", a, b);
}
```

Ques 39. WAP to check the number perfect or not?

```
#include <stdio.h>
int main()
{
    int n, i = 1, sum = 0;
    printf ("Enter a number");
    scanf ("%d", &n);
    while (i < n)
    {
        if (n % i == 0)
            sum = sum + i;
        i++;
    }
    if (sum == n)
        printf ("%d is a perfect number", n);
    else
        printf ("%d is not a perfect number", n);
    return 0;
}
```

Ques 40. WAP to check the number is Armstrong

```
OR not?
#include <stdio.h>
int main()
{
    int num, b = 0, t;
    printf ("Enter the number");
    scanf ("%d", &num);
    t = num;
    while (t > 0)
    {
        a = t % 10;
        b = b + a * a * a;
        t = t / 10;
    }
    if (b == num)
        printf ("%d is Armstrong", num);
    else
        printf ("%d is not an Armstrong number", num);
}
```

Bues 41. WAP to check the num is strong or not ?

include <stdio.h>

```
int main () {
    int num, i, p, n, sum = 0, s;
    printf (" Enter the number ");
    scanf ("%d", &num);
    s = num;
    while (num != 0) {
        i = 1, p = 1;
        r = num % 10;
        while (i <= r) {
            p = p * i;
            i++;
        }
        sum = sum + p;
        num = num / 10;
    }
}
```

printf ("odd is a strong number ");
else
printf ("odd is not a strong number ");

}

Bues 42. WAP to check for a num num ?

include <stdio.h>

```
void main () {
    int n, sq, sum = 0;
    printf (" enter the number ");
    scanf ("%d", &n);
    sq = n * n;
    while (sq > 0) {
        sum = sum + sq % 10;
        sq = sq / 10;
    }
}
```

if (sum == n)
printf ("odd is a num num ", n);
else
printf ("odd is not a num num ", n);

}

Ques 43. WAP to print an array of first five elements and print array of five elements.

```
# include < stdio.h >
Void main ()
{
    int a [5];
    for (int i = 0; i <= 4; i++)
    {
        printf ("Enter element ");
        scanf ("%d", &a [i]);
    }
    for (int i = 0; i < 5; i++)
    {
        printf (" %d ", a [i]);
    }
}
```

Ques 44. WAP to enter number marks and find the avg?

```
# include < stdio.h >
Int main ()
{
    Int avg, sum = 0, i;
    mark [5];
    for (i = 0; i <= 4; i++)
    {
        printf ("\nEnter marks ");
        scanf ("%d", &mark [i]);
    }
    for (i = 0; i < 5; i++)
    {
        sum = sum + mark [i];
    }
    avg = sum / 5;
    printf ("Avg = %d", avg);
}
```

Ques 45. WAP you finding largest element of an array?

```
#include <stdio.h>
Void main()
{
    int i, size, largest;
    printf ("Enter the size of array");
    scanf ("%d", &size);
    int array [size];
    printf ("Enter element of array\n");
    for (i=0; i<size; i++)
    {
        scanf ("%d" &array [i]);
        largest = array [0];
        for (i=1; i<size; i++)
        {
            if (largest < array [i])
                largest = array [i];
        }
    }
    printf ("Largest element is %d", largest);
```

Ques 46. WAP to read no. of values in an array and display it in reverse order?

```
#include <stdio.h>
int main()
{
    int n, a [100];
    printf ("Input no. of element in array");
    scanf ("%d", &n);
    printf ("Input of element", n);
    for (i=0; i<n; i++)
    {
        scanf ("%d" &a [i]);
        printf ("Value of element", n);
        for (i=n-1; i>=0; i--)
        {
            printf ("%d", a [i]);
        }
    }
}
```

Ques 47. WAP to input an array of 10n 0's and count total no. of positives, negatives and zero elements and display their counts.

```
#include <stdio.h>
void main()
{
    int i, n = 0, p = 0, z = 0, N;
    printf("Enter no. of elements of array ", N);
    int a[N];
    for (i = 0; i < N; i++)
    {
        scanf("%d", &a[i]);
        if (a[i] > 0)
            p++;
        else if (a[i] < 0)
            z++;
        else
            n++;
    }
}
```

```
printf("Positive no. = %d", p);
printf("Negative no. = %d", z);
printf("Zero elements = %d", n);
}
```

Ques 48. WAP to shift an element to a specific place.

```
#include <stdio.h>
int main()
{
    int i, digg, num, pos;
    printf("Enter array &i");
    scanf("%d", &i);
    printf("Enter the element to insert");
    int a[10];
    for (i = 0; i < digg; i++)
    {
        scanf("%d", &a[i]);
        if (a[i] == pos)
        {
            printf("Enter element want to insert");
            scanf("%d", &num);
            printf("In which position");
            scanf("%d", &pos);
            if (pos < i + 1)
                pos = i - 1;
            a[i + 1] = a[i];
            a[pos] = num;
            digg++;
            if (i == pos)
                pos++;
        }
    }
    printf("The array is ");
    for (i = 0; i < digg; i++)
        printf("%d ", a[i]);
}
```

Ques 49. Deletion of element at the end of the array?

```
#include <stdio.h>
int i, digit, num;
main()
{
    printf("Enter array digit");
    scanf("%d", &digit);
    printf("Enter array element");
    int o[10];
    for (i = 0; i < digit; i++)
    {
        scanf("%d", &o[i]);
    }
    printf("Enter element want to insert");
    scanf("%d", &num);
    digit = digit + 1;
    for (i = 0; i < digit - 1; i++)
    {
        o[i] = o[i + 1];
    }
    o[digit - 1] = num;
}
```

Ques 50. wAP to deletion an array at any position?

```
#include <stdio.h>
int main()
{
    int pos, num;
    printf("Enter no. of elements in array");
    scanf("%d", &num);
    int arr[10];
    for (i = 0; i < num; i++)
    {
        printf("Enter %d element", i + 1);
        scanf("%d", &arr[i]);
    }
    printf("Enter position to delete");
    scanf("%d", &pos);
    if (pos > num + 1)
    {
        printf("deletion not possible");
    }
    else
    {
        for (i = pos - 1; i < num - 1; i++)
        {
            arr[i] = arr[i + 1];
        }
        printf("%d\n", arr[i]);
    }
    return 0;
}
```