

C language

1. print hello world

```
Code- #include<stdio.h>
int main(){
    printf ("Hello world\n");
    return 0;
}
```

2. Program to print sum of n natural number.

```
Code- #include<stdio.h>
int main(){
    int n, sum =0, num;
    printf ("Enter n\n");
    scanf ("%d", &n);
    for (int i = 0; i < n; i++)
    {
        printf ("Enter your number\n");
        scanf ("%d", &num);
        sum = sum + num;
    }
    printf ("Sum = %d\n", sum);
    return 0;
}
```

3. Program to print digit of entered number.

```
Code- #include<stdio.h>
int main(){
    unsigned long long n;
    int digit=0;
    printf ("Enter number\n");
    scanf ("%llu", &n);
    while (n>0)
    {
        digit++;
        n = n/10;
    }
    printf ("Number of digit is %d\n", digit);
    return 0;
}
```

4. Program to reverse a no and check palindrome.

```
Code- #include<stdio.h>
```

```
int main(){
int n, rev=0, rem;
printf ("Enter a number\n");
scanf ("%d", &n);
int temp = n;
while (n>0)
{
    rem = n%10;
    rev = rev*10 + rem;
    n = n/10;
}
printf ("Reverse of %d is %d\n", temp, rev);
if (temp == rev)
{
    printf ("Its a palindrome number\n");
}
else
{
    printf ("Not a palindrome number\n");
}
return 0;
}
```

5. Program to check palindrome number.

Code- #include<stdio.h>

```
int main(){
int n, rem, arm=0;
printf ("Enter any 3 digit number\n");
scanf ("%d", &n);
int temp = n;
while (n>0)
{
    rem = n%10;
    arm = arm*10 + rem;
    n = n/10;
}
if (arm == temp)
{
    printf ("Its a Armstrong number\n");
}
else
{
    printf ("Not a Armstrong number\n");
}
return 0;
}
```

6. Program to check a number is prime or not.

Code- #include<stdio.h>

```
int main(){
int n, count=0;
printf ("Enter number to check wheather it is prime or not\n");
scanf ("%d", &n);
for (int i = 0; i < n/2; i++)
{
    if (n%i==0)
    {
        count++;
        break;
    }
}
if (count==0)
{
    printf ("Its a prime number\n");
}
else
{
    printf ("Not a prime number\n");
}
return 0;
}
```

7. Program to find factorial number.

Code- #include<stdio.h>

```
int main(){
int n, fact=1;
printf ("Enter number\n");
scanf ("%d", &n);
for (int i = 1; i <=n; i++)
{
    fact = fact*i;
}
printf ("Factorial of %d is %d\n", n, fact);
return 0;
}
```

8. Program to print fibonacci series.

Code- #include<stdio.h>

```
int main(){
int n, a, b, temp;
printf ("Enter a number\n");
scanf ("%d", &n);
a = 0;
```

```

b = 1;
printf ("%d\t%d\t", a, b);

for (int i = 1; i <= n-2; i++)
{
    temp = b;
    b = a+b;
    a = temp;
    printf ("%d\t", b);
}
return 0;
}

```

9. Program to print Even or odd number between a series.

Code- #include<stdio.h>

```

int main(){
int min, max;
printf ("Enter starting and ending point\n");
scanf ("%d %d", &min, &max);
printf ("Even numbers are: \n");
for (int i = min; i <=max; i++)
{
    if (i%2==0)
    {
        printf ("%d\t", i);
    }
}
printf ("\nOdd numbers are: \n");
for (int i = min; i <= max; i++)
{
    if (i%2!=0)
    {
        printf ("%d\t", i);
    }
}
return 0;
}

```

10. Program to print in column number and their square and cube.

Code- #include<stdio.h>

```

int main(){
for (int i = 1; i <= 10; i++)
{
    printf ("%d\t%d\t%d\n", i, i*i, i*i*i);
}
return 0;
}

```

11. Program to convert decimal to binary number.

```
Code:- #include<iostream>
#include<math.h>
using namespace std;
int main(){
    int n;
    cout<<"Enter a decimal number: ";
    cin>>n;
    int ans =0;
    int i=0;
    while (n!=0)
    {
        int bit = n&1;
        ans += pow(10, i)*bit;
        n = n>>1;
        i++;
    }
    cout<<"Answer = "<<ans<<endl;

    return 0;
}
```

12. Program to convert binary to decimal.

```
Code:- #include<iostream>
#include<math.h>
using namespace std;
int main(){
    int n;
    cout<<"Enter a binary number: ";
    cin>>n;
    int ans=0, i=0;
    while (n!=0)
    {
        int digit = n%10;
        if (digit == 1)
        {
            ans += pow(2, i);
        }
        n /= 10;
        i++;
    }
    cout<<ans<<endl;

    return 0;
}
```

13.

ASEFALAM