

1. Write a program to find given number is even or odd using C program .

```
//SrijanBEA Love to Coode<3//
int main(){
    int a;
    printf("Enter a number to know it is evenr or odd\n");
    scanf("%d",&a);
    if(a%2==0){
        printf("%d is even number",a);
    }
    else{
        printf("%d is odd number",a);
    }
    return 0;
}
//Happy Coding//
```

2. Write a program to print whether a given number is prime or composite number .

```
//SrijanBEA Loves to Coode<3//
#include <stdio.h>
int main(){
    int a;
    printf("Enter a number to check \n");
    scanf("%d",&a);
    int b;
    int c=0;
    for(b=1;b<=a;b++){
        if(a%b==0)
        {
            c=c+1;
        }
    }
    if(c==2){
        printf("It is prime number");
    }
    else{
        printf("It is composite number");
    }
    return 0;
}
//Happy Coding//
```

3. Write a program to print multiplication table of given number using C program.

```
//SrijanBEA Loves to Code//
#include<stdio.h>
void main()
{
    int a=1,b,c;
    printf("Enter a number to find table:");
    scanf("%d",&b);
    do
    {
        c=b*a;
```

```

printf("%d * %d = %d \n",b,a,c);
a++;
}
while(a<=10);
}
//Happy Coding//

```

4. Write a to display Fibonacci series using C program with functions.

```

//SrijanBEA Loves to Code//
#include<stdio.h>
void fibonacciSeries(int range)
{
int a=0, b=1, c;
while (a<=range)
{
printf("%d\t", a);
c = a+b;
a = b;
b = c;
}
}
int main()
{
int range;
printf("Enter range: ");
scanf("%d", &range);
printf("The fibonacci series is: \n");
fibonacciSeries(range);
return 0;
}
//Happy Coding//

```

5. Write a program to print prime numbers between 1 to 100 .

```

//SrijanBEA Loves to Code//
#include<stdio.h>
#include<stdio.h>
int main(){
int a;
int b;
int c;
printf("Prime number from 1 to 100 :");
for(a=1;a<=100;a++){
c=0;
for(b=1;b<=a;b++){
if(a%b==0){
c++;
}
}
if(c==2){
printf("\n%d",a);
}
}
return 0;
}
//Happy Coding//

```

6. Write a program to find factorial of given number using recursive function.

```
//SrijanBEA Loves to Code//
#include<stdio.h>
#include<conio.h>
int fact(int);
void main(){
    int n,f;
    printf("Enter no. for finding factorial :");
    scanf("%d",&n);
    f=fact(n);
    printf("factorial is %d",f);
    getch();
}
int fact(int n){
    if(n==0){
        return(1);
    }
    else{
        return(n*fact(n-1));
    }
}
//Happy Coding//
```

7. Write a program to find sum of given 'n' numbers in array using function .

```
//SrijanBEA Loves to Code//
#include <stdio.h>
int sumofarray(int a[],int n)
{
    int i,sum=0;
    for(i=0; i<n; i++)
    {
        sum+=a[i];
    }
    return sum;
}
int main()
{
    int a[1000],i,n,sum;
    printf("Enter size of the array : ");
    scanf("%d", &n);
    printf("Enter number to do sum : ");
    for(i=0; i<n; i++)
    {
        scanf("%d",&a[i]);
    }
    sum=sumofarray(a,n);
    printf("sum of array is :%d",sum);
}
//Happy Coding//
```

8. Write a display to Sunday to Saturday when user enters a number using switch case in c program .

```
//SrijanBEA Loves to Code//
#include <stdio.h>
int main() {
```

```

    int a ;
    printf("Enter a day number\n");
    scanf("%d",&a);
    switch(a){
    case 1 : printf("This means Sunday");
    break;
    case 2: printf("This means Monday");
    break;
    case 3: printf("This means Tuesday");
    break;
    case 4: printf("This means Wednesday");
    break;
    case 5 :printf("This means Thursday");
    break;
    case 6:printf("This means Friday");
    break;
    case 7: printf("This means Saturday");
    break;
default: printf("This is Invalid number");
    }
    return 0;
}

//Happy Coding//

```

9. Write a program to find power using pow() function in c .

```

//SrijanBEA Loves to Code//
#include<stdio.h>
#include<math.h>
int main()
{
    int num1, num2;
    printf("Enter base and power: ");
    scanf("%d %d",&num1, &num2);
    printf("Result = %.2f",pow(num1, num2));
    return 0;
}

//Happy Coding//

```

10. Write a c program to find greatest number among different numbers using array with functions .

```

//SrijanBEA Loves to Code//
#include<stdio.h>
void main()
{
    int maximum(int a[],int n);
    int max,i,n;
    int a[50];
    printf("Enter how many no. to check:");
    scanf("%d",&n);
    printf("Enter the numbers:\n");
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
}

```

```

        max=maximum(a,n);
    }
    printf("The largest number is %d",max);
}
int maximum(int a[],int n)
{
    int i,m=0;
    for(i=0;i<n;i++)
    {
        if(a[i]>m)
        m=a[i];
    }
    return m;
}
//Happy Coding//

```

11. Write a c program to find whether a given number is palindrome or not .

```

//SrijanBEA Loves to Code//
#include <stdio.h>
    int main() {
        int n;
        int original;
        int remainder;
        int reversed=0;
        printf("Enter an integer: ");
        scanf("%d", &n);
        original = n;
        while (n != 0) {
            remainder = n % 10;
            reversed = reversed * 10 + remainder;
            n /= 10;
        }
        if (original == reversed)
            printf("%d is a palindrome.", original);
        else
            printf("%d is not a palindrome.", original);
        return 0;
    }
//Happy Coding//

```

12. Write a c program to find whether a given string is palindrome or not .

```

//SrijanBEA Loves to Code//
#include<stdio.h>
    #include<string.h>
    int main()
    {
        char s1[1000],s2[1000];
        printf("Enter the string: ");
        gets(s1);
        strcpy(s2,s1);
        strrev(s2);
        if(!strcmp(s1,s2))
            printf("string is palindrome");
    }

```

```

        else
        printf("string is not palindrome");
        return 0;
    }
//Happy Coding//

```

13. Write a C program to input 2*2 matrix element and display the transpose of matrix.

```

//SrijanBEA Loves to Code//
#include<stdio.h>
void main()
{
    int mat[2][2], transpose[2][2];
    int i;
    int j;
    printf("Transpose of 2*2 matrix\n");
    printf("Enter the elements of the matrix\n");
    for(i=0; i<2; i++)
    {
        for(j=0; j<2; j++)
        {
            scanf("%d", &mat[i][j]);
        }
    }
    printf("The matrix\n");
    for(i=0; i<2; i++)
    {
        for(j=0; j<2; j++)
        {
            printf("%d\t", mat[i][j]);
        }
        printf("\n");
    }
    for(i=0; i<2; i++)
    {
        for(j=0; j<2; j++)
        {
            transpose[j][i] = mat[i][j];
        }
    }
    printf("The transpose of the matrix is\n");
    for(i=0; i<2; i++)
    {
        for(j=0; j<2; j++)
        {
            printf("%d\t", transpose[i][j]);
        }
        printf("\n");
    }
}
//Happy Coding//

```

14. WAP to enter the 20 employee's name, age, and salary using structure and print them.

```

//SrijanBEA Loves to Code//
#include<stdio.h>
    struct emp
    {
        char n[100];
        int age;
        int sal;
    };
    struct emp e[20];
    int main()
    {
        int i;
        printf("Enter employee name age and salary\n");
        for(i=0;i<20;i++)
        {
            scanf("%s %d %d",e[i].n,&e[i].age,&e[i].sal);
        }
        printf("Name \t Age \t Salary");
        for(i=0;i<20;i++)
        {
            printf("%s\t %d\t %d\t",e[i].n,e[i].age,e[i].sal);
        }
        return 0;
    }
//Happy Coding//

```

15. Write a C program to find whether a given number is Armstrong or not .

```

//SrijanBEA Loves to Code//
#include<stdio.h>
    int isArmstrong(int number)
    {
        int lastDigit = 0;
        int power = 0;
        int sum = 0;
        int n = number;
        while(n!=0) {
            lastDigit = n % 10;
            power = lastDigit*lastDigit*lastDigit;
            sum += power;
            n /= 10;
        }
        if(sum == number) return 0;
        else return 1;
    }
    int main()
    {
        int number;
        printf("Enter number: ");
        scanf("%d",&number);
        if(isArmstrong(number) == 0)
            printf("%d is an Armstrong number.\n", number);
        else
            printf("%d is not an Armstrong number.", number);
        return 0;
    }

```

```
//Happy Coding//
```