```c
/*
*   Que: print all natural number from 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n;
	printf("enter a number");
	scanf("%d",&n);

	i=1;
	while(i<=n)
	{
		printf("all natural number is %d\n",i);
		i++;
	}
	getch();
}




/*
*   Que: print all natural number reverse (from 1 to n)
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n;
	printf("enter a number");
	scanf("%d",&n);

	i=1;
	while(n>=i)
	{
		printf("all natural number from n to 1 is %d\n",n);
	 n--;
}
	getch();
}
```

```c
/*
*   Que: print all alphabets from a to z
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i=97;	// Ascii value of a=97    z=122
	printf("all alphabets are\n");

	while(i<=122)
	{
		printf("%c",i);
	   i++;
	}


	getch();

}
```

```c
/*
*   Que: print all even number beween 1 to 100
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n;
	printf("enter a number");
	scanf("%d",&n);
	i=1;
	while(i<=n)
	{
		if(i%2==0)
		{
			printf("even number is %d\n",i);
		}
		i++;
	}
	getch();
}
```

```c
/*
*   Que: print all odd number beween 1 to 100
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n;
	printf("enter a number");
	scanf("%d",&n);
	i=1;
	while(i<=n)
	{
		if(i%2!=0)
		{
			printf("odd number is %d\n",i);
		}
		i++;
	}
	getch();
}
```

```c
/*
*   Que: print sum all natural number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n,sum=0;
	printf("enter a number");
	scanf("%d",&n);

	i=1;
	while(i<=n)
	{
		sum=sum+i;
	  i++;
	}
	printf("sum of all natural number is %d\n",sum);
	getch();
}
```

```c
/*
*   Que: print sum all even number from 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n,sum=0;
	printf("enter a number");
	scanf("%d",&n);

	i=1;
	while(i<=n)
	{
		if(i%2==0)
		{
			sum=sum+i;
		}
		i++;
	}
	printf("sum of all even number is %d\n",sum);
  getch();
}
```

```c
/*
*   Que: print sum all odd number from 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n,sum=0;
	printf("enter a number");
	scanf("%d",&n);

	i=1;
	while(i<=n)
	{
		if(i%2!=0)
		{
			sum=sum+i;
		}
```

```
                i++;
        }
        printf("sum of all odd number is %d\n",sum);
  getch();
}



/*
*   Que: print multiplication table of any number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
        int i,n;
        printf("enter a number");
        scanf("%d",&n);

        for(i=1; i<=10; i++)
        {
                printf("%d*%d=%d\n",n,i,(n*i));
        }
        getch();
}




/*
*   Que: to count number of digit in a number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
        int n,count=0;
        printf("enter a number");
        scanf("%d",&n);

        while(n>0)
        {
                count++;
                n=n/10;
        }
        printf("cout is %d\n",count);
        getch();
```

```
}



/*
*   Que: to find first and last digit of number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int n,first,last;
	printf("enter a number");
	scanf("%d",&n);

	last=n%10;

	while(n>=10)
	{
		n=n/10;
	}
	first=n;
	printf("first digit %d \t last digit %d",first,last);
	getch();
}




/*
*   Que: to find sum of first and last digit of number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int n,first,last,sum=0;
	printf("enter a number");
	scanf("%d",&n);

	last=n%10;

	while(n>=10)
	{
		n=n/10;
	}
```

```
        first=n;
        sum=first + last;

        printf("sum is %d\n",sum);
        getch();
}
```

```
/*
*   Que: enter a number and print it reverse
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
        int n,r,sum=0;
        printf("enter a value");
        scanf("%d",&n);

        while (n>0)
        {
                r=n%10;
                sum=sum*10+r;
                n=n/10;
        }
        printf("%d\n",sum);
        getch();
}
```

```
/*
*   Que: to check whether number is palindrome or not
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
        int n,r,sum=0,temp=n;
        printf("enter a number");
        scanf("%d",&n);

        while(n>0)
```

```
	{
		r=n%10;
		sum=sum*10+r;
		n=n/10;
	}
	n=temp;
	if(n==sum)
	{
		printf("number is palindrome");
	}
	else
	{
		printf("number is not palindrome");
	}
	getch();
}
```

```
/*
*   Que: to calculate sum of digit of number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

	void main()
	{
		int n,r,sum=0;
		printf("enter a value");
		scanf("%d",&n);

    while(n>0)
	{
		r=n%10;
		sum=sum+r;
		n=n/10;
	}
	printf("sum of digit of number is %d\n",sum);
	getch();
	}
```

```
/*
*   Que: to calculate product of digit of number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/
```

```
//  Soluction


#include<stdio.h>
#include<conio.h>

       void main()
       {
              int n,r,sum=1;
              printf("enter a value");
              scanf("%d",&n);

    while(n>0)
       {
              r=n%10;
              sum=sum*r;
              n=n/10;
       }
       printf("product of digit of number is %d\n",sum);
       getch();
       }
```

```
/*
*   Que: enter a number and ptint it reverse
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

       void main()
       {
              int n,r,sum=0;
              printf("enter a number");
              scanf("%d",&n);

              while(n>0)
              {
                     r=n%10;
                     sum=sum*10+r;
                     n=n/10;
              }

              while(sum>0)
              {
                     switch(sum%10)
                     {
                     case 0:
                            printf("zero ");
                            break;
             case 1:
                            printf("one ");
                            break;
```

```
            case 2:
                        printf("two ");
                        break;
                  case 3:
                        printf("three ");
                        break;
                     case 4:
                        printf("four ");
                        break;
                     case 5:
                        printf("five ");
                        break;
                     case 6:
                        printf("six ");
                        break;
                     case 7:
                        printf("seven ");
                        break;
                     case 8:
                        printf("eight ");
                        break;
            case 9:
                        printf("nine ");
                        break;
                     }
                     sum=sum/10;
              }
              getch();
       }
```

```
/*
*   Que: to print all ASCII character withtheir values
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
       char ch='a';


       while(ch<='z')
       {
              printf("%c=",ch);
              printf("%d",ch);
              ch++;
       }
       getch();
}
```

```c
/*
*   Que: to find frequency of each digit in given number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//  Soluction


#include<stdio.h>
#include<conio.h>

void main()
{

		int n,n1,n2,rem1,rem2,count=0;
		printf("enter number");
		scanf("%d",&n);
		n1=n2=n;

		printf("frequency of given number %d\n",n);

		while(n1>0)
		{
			rem1=n1%10;
			n2=n;
			count=0;

			while(n2>0)
			{
				rem2=n2%10;

				if(rem1==rem2)
				{
					count++;
				}
				n2=n2/10;
			}
			printf("%d=%d\n",rem1,count);
			n1 = n1/10;
		}
		getch();
	}
```

```c
/*
* Que: to find the power of number
* Owner: Nikhil kisan khond
* Batch: PPA9
*/


//    Soluction


#include<stdio.h>
#include<conio.h>
```

```c
void main()
{
	int i,x,y,ans=1;
	{
		printf("enter number");
		scanf("%d",&x);
		printf("enter number");
		scanf("%d",&y);

		for(i=1;i<=y;i++)
		{
			ans=ans*x;
		}
		printf("power of number is %d",ans);

	}
	getch();
}



/*
*   Que: to find all factor of number
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   soluction
#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n,count=0;
	printf(" enter a number");
	scanf("%d",&n);

	for(i=1;i<=n;i++)
	{
		if(n%i==0)
		{
			count++;
		}
	}
	printf("factor is %d\n",count);
	getch();
}


/*
*   Que: to check number is prime number or not
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   Soluction


#include<stdio.h>
#include<conio.h>
```

```c
void main()
{
	int i,n,count=0;
	printf("enter  number");
	scanf("%d",&n);

	for(i=1;i<=n;i++)
	{
		if(n%i==0)
		{
			count++;
		}
	}
	if(count==2)

			printf("number is prime number");

	else

			printf("number is not prime number");
	getch();

}
```

```c
/*
*   Que: to prints all prime numbers between 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   soluction
#include<stdio.h>
#include<conio.h>

void main()
{

       int n,i,j,count;
          printf("all prime numbers between 1 to 100 are\n");
          for(i=1;i<=100;i++)
          {
                 count=0;
                 for(j=1;j<=i;j++)
                 {
                        if(i%j==0)
                        {
                               count++;
                        }
                 }
                 if(count==2)
                 {
                        printf("%d",i);
                 }
          }
          getch();
}



/*
*   Que: to prints sum all prime numbers between 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   soluction
#include<stdio.h>
#include<conio.h>

void main()
{
       int n,i,j,count,sum=0;
          printf("all prime numbers between 1 to 100 are\n");
          for(i=1;i<=100;i++)
          {
                 count=0;
                 for(j=1;j<=i;j++)
                 {
                        if(i%j==0)
                        {
                               count++;
                        }
                 }
                 if(count==2)
                 {
                       printf("% d",i);
```

```
                        sum=sum+i;

                }
         }
         printf("%d is the sum of all prime number between 1 to %d is",sum,i);

          getch();
}
```

```
/*
*   Que: to check number is armstrong number or not
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
       int n,r,temp,sum=0;

       printf("enter number");
       scanf("%d",&n);

       temp=n;
       while(n>0)
       {
              r=n%10;
              sum=sum+r*r*r;
              n=n/10;
       }

       n=temp;
       if(n==sum)
       {
              printf("the number is armstrong number");
       }

       else
       {
              printf("the number is not armstrong number");
       }
       getch();
}
```

```
/*
*   Que: to prints all armstrong number from 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/
```

```c
//   soluction
#include<stdio.h>
#include<conio.h>

void main()
{
	int num,r,sum,count=1;
	printf("enter number");
	scanf("%d",&num);

	while(count<=10000)
	{
		num=count;
		sum=0;
		while(num)
		{
			r=num%10;
			sum=sum+r*r*r;
			num=num/10;
		}
		if(count==sum)
		{
			printf("%d is aarmstrong number\n",count);
		}
		count++;
	}
	getch();
}
```

```c
/*
*   Que: to check number is perfect number or not
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   Soluction


#include<stdio.h>
#include<conio.h>

void main()
{
	int i,n,sum=0;
	printf("enter number");
	scanf("%d",&n);

	for(i=1;i<n;i++)
	{
		if(n%i==0)
			sum=sum+i;
	}

if(n==sum)
printf("the number is perfect number");

else
	printf("the number is not perfect number");
```

```
getch();

}
```

```
/*
*   Que: to prints all perfect number from 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   soluction
#include<stdio.h>
#include<conio.h>

void main()
{
       int n,i,j,sum;
    printf("enter number");
       scanf("%d",&n);

       for(i=1;i<=n;i++)
       {
              sum=0;
              for(j=1;j<i;j++)
              {
                     if(i%j==0)
                     {
                            sum=sum+j;
                     }
              }
              if(i==sum)
                     {
                            printf("%d",i);
              }
       }
       getch();
}
```

```
       /*
*   Que: to check the number is strong number or not
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   soluction
#include<stdio.h>
#include<conio.h>

void main()
{
       int n,i,temp,r,fact,sum=0;
       printf("enter number");
       scanf("%d",&n);
       temp=n;
       while(n>0)
       {
              r=n%10;
```

```
		fact=1;
		for(i=r;i>=1;i--)
		{
			fact=fact*i;
	}
	sum=sum+fact;
	n=n/10;
	}
	    n=temp;
	      if(n==sum)
				printf("number is strong number");
			else
				printf("number is not strong number");
			getch();

}


/*
*   Que: to print all strong number between 1 to n
*   Owner: Nikhil Kisan Khond
*   Batch: PPA9
*/

//   soluction
#include<stdio.h>
#include<conio.h>

void main()
{
	int n,i,j,r,fact,sum=0;
	printf("enter number");
	scanf("%d",&n);

	for(i=1;i<=n;i++)
	{
		sum=0;

	while(n>0)
	{
		r=n%10;
		fact=1;
		for(j=r;j>=1;j--)
		{
			fact=fact*j;
	}
	sum=sum+fact;
	n=n/10;
	}

	      if(n==sum)
				printf("%d is a strong number",n);
	}
			getch();


}
```