

Q1

//Program To Perform All Arithmetic Operations

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

```
int main(){
```

```
    int a,b,add,subt,mul,div,rem;
```

```
    printf("Enter First Number: ");
```

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

```
    printf("Enter Second Number: ");
```

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

```
    add=a+b;
```

```
    subt=a-b;
```

```
    mul=a*b;
```

```
    div=a/b;
```

```
    rem=a%b;
```

```
    printf("\nAddition of %d & %d = %d",a,b,add);
```

```
    printf("\nSubtraction of %d & %d = %d",a,b,subt);
```

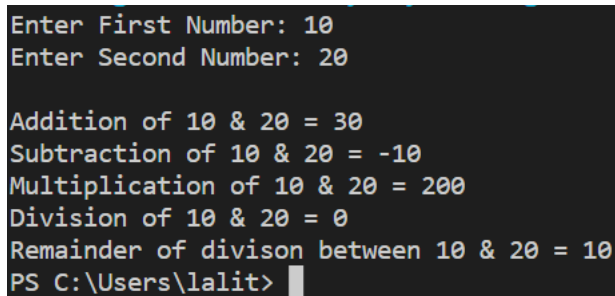
```
    printf("\nMultiplication of %d & %d = %d",a,b,mul);
```

```
    printf("\nDivision of %d & %d = %d",a,b,div);
```

```
    printf("\nRemainder of division between %d & %d = %d",a,b,rem);
```

```
    return 0;
```

```
}
```



```
Enter First Number: 10
Enter Second Number: 20

Addition of 10 & 20 = 30
Subtraction of 10 & 20 = -10
Multiplication of 10 & 20 = 200
Division of 10 & 20 = 0
Remainder of division between 10 & 20 = 10
PS C:\Users\lalit>
```

Q2

//Program To Find Area Of A Triangle When Height And Base Are Given

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

```
int main(){
```

```
float a,b,area;

printf("Enter Height Of Triangle: ");

scanf("%f",&a);

printf("Enter Base Of Triangle: ");

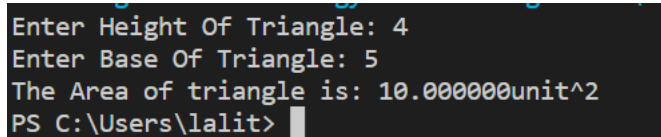
scanf("%f",&b);

area=0.5*a*b;

printf("The Area of triangle is: %funit^2",area);

return 0;

}
```

A screenshot of a terminal window showing the output of the first program. The text is as follows:

```
Enter Height Of Triangle: 4
Enter Base Of Triangle: 5
The Area of triangle is: 10.000000unit^2
PS C:\Users\lalit>
```

Q3

//Program To Find Third Angle Of A Triangle

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

```
int main(){

    int a,b,c;

    printf("Enter First Angle: ");

    scanf("%d",&a);

    printf("Enter Second Angle: ");

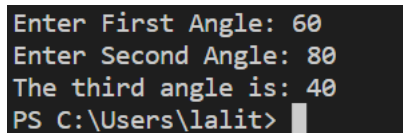
    scanf("%d",&b);

    c=180-a-b;                                //Sum Of all angle of triangle is 180.

    printf("The third angle is: %d",c);

    return 0;

}
```

A screenshot of a terminal window showing the output of the second program. The text is as follows:

```
Enter First Angle: 60
Enter Second Angle: 80
The third angle is: 40
PS C:\Users\lalit>
```

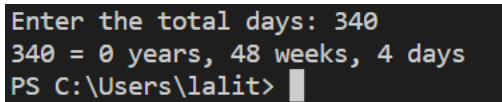
Q4

//Program To Convert Days Into Year Weeks & Days

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

Abhishek Singh

```
int main(){
    int a,years,weeks,days;
    printf("Enter the total days: ");
    scanf("%d",&a);
    years=a/365;
    weeks=(a%365)/7;
    days=a-((years*365)+(weeks*7));
    printf("%d = %d years, %d weeks, %d days\n",a,years,weeks,days);
}
```



```
Enter the total days: 340
340 = 0 years, 48 weeks, 4 days
PS C:\Users\lalit>
```

Q5

//Program To Find Power & Square Root Of Any No.

```
#include<stdio.h>
#include<math.h>
int main(){
    int a,expo,c,i,d;
    printf("Enter a no.: ");
    scanf("%d",&a);
    d=sqrt(a);
    printf("The square root of given no. is: %d",d);
    printf("\nEnter a exponential power for finding power of given num: ");
    scanf("%d",&expo);
    for(i=0;i<expo;i++){
        c=a*a;
    }
    printf("The power of given no. is: %d",c);
    return 0;
}
```

Roll No : 2215000066

```
Enter a no.: 121
The square root of given no. is: 11
Enter a exponential power for finding power of given num: 2
The power of given no. is: 14641
PS C:\Users\lalit>
```

Q6

//Program To Find Total, Average, Percentage & Grade Of Five Subjects Marks

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

```
int main(){
```

```
    int a,b,c,d,e,total,avg,p;
```

```
    printf("Enter marks of first subject: ");
```

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

```
    printf("Enter marks of second subject: ");
```

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

```
    printf("Enter marks of third subject: ");
```

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

```
    printf("Enter marks of fourth subject: ");
```

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

```
    printf("Enter marks of fifth subject: ");
```

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

```
    total=a+b+c+d+e;
```

```
    avg=total/2;
```

```
    p=total/5;
```

```
    printf("Total=%d\nAverage=%d\nPercentage=%d%c",total,avg,p,37);
```

```
    if(p<=100 && p>=90){
```

```
        printf("Grade=A!!");
```

```
    }
```

```
    else if(p<=89 && p>=80){
```

```
        printf("Grade=B!!");
```

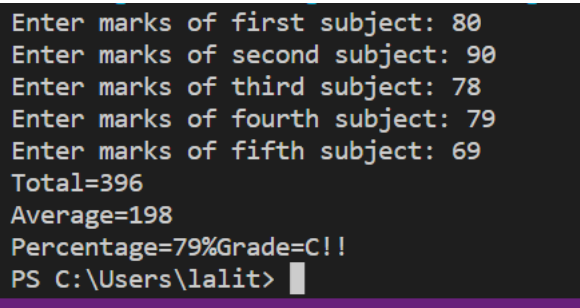
```
    }
```

```
    else if(p<=79 && p>=60){
```

```
        printf("Grade=C!!");
```

Abhishek Singh

```
    }  
    else if(p<=59 && p>=40){  
        printf("Grade= D!!");  
    }  
    else if(p<=39 && p>=27){  
        printf("Grade=E!!");  
    }  
    else  
        printf("Better Luck Next Time!!");  
    return 0;  
}
```



```
Enter marks of first subject: 80  
Enter marks of second subject: 90  
Enter marks of third subject: 78  
Enter marks of fourth subject: 79  
Enter marks of fifth subject: 69  
Total=396  
Average=198  
Percentage=79%Grade=C!!  
PS C:\Users\lalit>
```

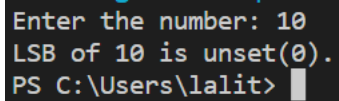
Q7A

//Program To Check LSB

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

```
int main(){  
    int num;  
    printf("Enter the number: ");  
    scanf("%d",&num);  
    if(num & 1)  
        printf("LSB of %d is set(1).",num);  
    else  
        printf("LSB of %d is unset(0).",num);  
    return 0;  
}
```

Roll No : 2215000066



```
Enter the number: 10
LSB of 10 is unset(0).
PS C:\Users\lalit>
```

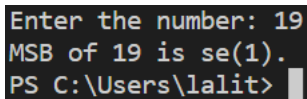
Q7B

//Program To Check MSB

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

```
#define BITS sizeof(int)*8
```

```
int main(){
    int num,msb;
    printf("Enter the number: ");
    scanf("%d",&num);
    msb=1<<(BITS-1);
    if(num & 1)
        printf("MSB of %d is se(1).",num);
    else
        printf("MSB of %d is unset(0).",num);
    return 0;
}
```



```
Enter the number: 19
MSB of 19 is se(1).
PS C:\Users\lalit>
```

Q8A

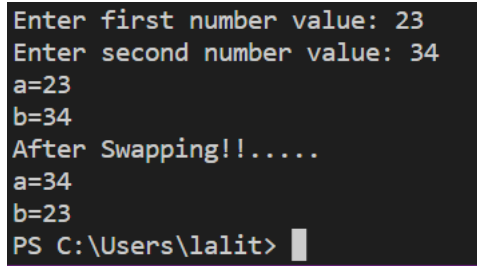
//Program To Check MSB

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

```
#define BITS sizeof(int)*8
```

```
int main(){
    int num,msb;
    printf("Enter the number: ");
    scanf("%d",&num);
    msb=1<<(BITS-1);
    if(num & 1)
```

```
        printf("MSB of %d is se(1).",num);  
    else  
        printf("MSB of %d is unset(0).",num);  
    return 0;  
}
```



```
Enter first number value: 23  
Enter second number value: 34  
a=23  
b=34  
After Swapping!!.....  
a=34  
b=23  
PS C:\Users\lalit>
```

Q8B

//Program To Swao To No. By Using Third Variable

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

```
int main(){  
    int a,b,temp;  
    printf("Enter first number value: ");  
    scanf("%d",&a);  
    printf("Enter second number value: ");  
    scanf("%d",&b);  
    printf("a=%d\nb=%d",a,b);  
    temp=a;  
    a=b;  
    b=temp;  
    printf("\nAfter Swapping!!.....");  
    printf("\na=%d\nb=%d",a,b);  
    return 0;  
}
```

```
Enter first number value: 25
Enter second number value: 35
a=25
b=35
After Swapping!!.....
a=35
b=25
PS C:\Users\lalit>
```

Q9

//Program To Find Max No. Using ternary Operator

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

```
int main(){
    int a,b,c,max;
    printf("Enter first number: ");
    scanf("%d",&a);
    printf("Enter second number: ");
    scanf("%d",&b);
    printf("Enter third number: ");
    scanf("%d",&c);
    max=(a>b && a>c)?(a):((b>c)?(b):(c));
    printf("Max No. is: %d",max);
    return 0;
}
```

```
Enter first number: 27
Enter second number: 56
Enter third number: 47
Max No. is: 56
PS C:\Users\lalit>
```

Q10

//Program To Count Alphabet, Digits & Special Character Using Conditional Operator

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

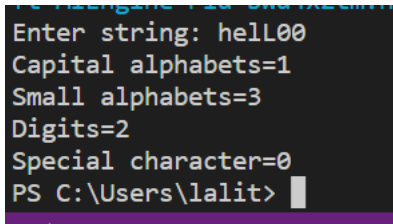
```
int main(){
    char str[20];
    int i,c1=0,c2=0,c3=0,c4=0;
    printf("Enter string: ");
```



```
gets(str);
for(i=0;str[i]!='\0';i++){
    if(str[i]>='A' && str[i]<='Z')
        c1++;
    else if(str[i]>='a' && str[i]<='z')
        c2++;
    else if(str[i]>='0' && str[i]<='9')
        c3++;
    else
        c4++;
}

printf("Capital alphabets=%d\nSmall alphabets=%d\nDigits=%d\nSpecial
character=%d",c1,c2,c3,c4);

return 0;
}
```



```
Enter string: hell00
Capital alphabets=1
Small alphabets=3
Digits=2
Special character=0
PS C:\Users\lalit>
```

Q11

//Calculate Electricity Bill

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

```
int main(){
    int unit;
    float total;
    printf("Enter your electricity unit consumption: ");
    scanf("%d",&unit);
    if(unit <= 50)
        total=unit*0.5;
    else if(unit<=150)
        total=(50*0.5)+((unit-50)*0.75);
```

```
else if(unit<=250)
    total=(50*0.5)+(100*0.75)+(100*1.2)+((unit-250)*1.5);
printf("Your total bill is: Rs.%.f",total);
return 0;
}
```

```
Enter your electricity unit consumption: 10
Your total bill is: Rs.5.000000
PS C:\Users\lalit>
```

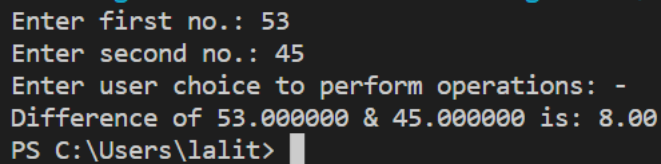
Q12A

//Program To Create Simple Calculator Using Switch Case

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

```
int main(){
    float a,b,c;
    char ch;
    printf("Enter first no.: ");
    scanf("%f",&a);
    printf("Enter second no.: ");
    scanf("%f",&b);
    printf("Enter user choice to perform operations: ");
    scanf("%s",&ch);
    switch(ch){
        case '+':c=a+b;
                printf("Sum of %f & %f is: %0.2f",a,b,c);
                break ;
        case '-':c=a-b;
                printf("Difference of %f & %f is: %0.2f",a,b,c);
                break ;
        case '*':c=a*b;
                printf("Multiplications of %f & %f is: %0.2f",a,b,c);
                break ;
        case '/':c=a/b;
                printf("Division of %f & %f is: %0.2f",a,b,c);
```

```
        break ;
    default :printf("Invalid operations!!");
        break;
    }
}
```



```
Enter first no.: 53
Enter second no.: 45
Enter user choice to perform operations: -
Difference of 53.000000 & 45.000000 is: 8.00
PS C:\Users\lalit>
```

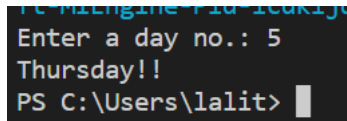
Q12B

//Program To Create Days Of Week Using Switch Case

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

```
int main(){
    int a;
    printf("Enter a day no.: ");
    scanf("%d",&a);
    switch(a){
        case 1:printf("Sunday!!");
                break ;
        case 2:printf("Monday!!");
                break ;
        case 3:printf("Tuesday!!");
                break ;
        case 4:printf("Wednesday!!");
                break ;
        case 5:printf("Thursday!!");
                break;
        case 6:printf("Friday!!");
                break;
        case 7:printf("Saturday!!");
                break;
        default :printf("Invalid Day!!");
    }
```

```
        break ;  
        return 0;  
    }  
}
```



```
Enter a day no.: 5  
Thursday!!  
PS C:\Users\lalit>
```

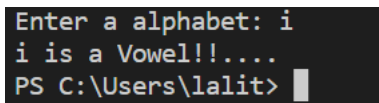
Q13

//Program To Check Vowel Or Consonants Using Switch Case

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

```
int main(){  
    char ch;;  
    printf("Enter a alphabet: ");  
    scanf("%c",&ch);  
    if((ch>='A' && ch<='Z')||(ch>='a' && ch<='z')){  
        switch(ch){  
            case 'A':  
            case 'E':  
            case 'I':  
            case 'O':  
            case 'U':  
            case 'a':  
            case 'e':  
            case 'i':  
            case 'o':  
            case 'u':  
                printf("%c is a Vowel!!....",ch);  
                break ;  
            default:  
                printf("%c is a Consonant!!....",ch);  
        }  
    }  
    else
```

```
        printf("\n %c is not an alphabet!! ",ch);  
        return 0;  
    }
```



```
Enter a alphabet: i  
i is a Vowel!!....  
PS C:\Users\lalit>
```

Q14

//COUNT +V , -V, Zero

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

```
int main(){
```

```
    int n,i,count=0,flag=0,red=0;
```

```
    printf("Enter the size of an array: ");           //Taking Size Of An Array
```

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

```
    int a[n];
```

```
    for(i=0;i<n;i++){                                //Taking Value Of Elements
```

```
        printf("Enter the value for index%d: ",i);
```

```
        scanf("%d",&a[i]);
```

```
    }
```

```
    for(i=0;i<n;i++){
```

```
        if(a[i]>0){
```

```
            count++;
```

```
        }
```

```
        else if(a[i]<0){
```

```
            flag++;
```

```
        }
```

```
        else {
```

```
            red++;
```

```
        }
```

```
    }
```

```
    printf("Total no. of +v no. is:%d\nTotal no. of -v no. is:%d\nTotal no. of 0 no.  
is:%d",count,flag,red);
```

```
}
```

```
Enter the value for index1: 3
Enter the value for index2: 4
Enter the value for index3: 5
Enter the value for index4: 6
Enter the value for index5: 7
Enter the value for index6: 0
Enter the value for index7: 1
Total no. of +v no. is:7
Total no. of -v no. is:0
Total no. of 0 no. is:1
PS C:\Users\lalit>
```

Q15

//Program To Check A Triangle Is Equilateral, Isosceles Or Scalene Triangle

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

```
int main(){
    int a,b,c;
    printf("Enter first side of triangle: ");
    scanf("%d",&a);
    printf("Enter second side of triangle: ");
    scanf("%d",&b);
    printf("Enter third side of triangle: ");
    scanf("%d",&c);
    if(a==b && b==c){
        printf("\nTriangle is Equilateral");
    }
    else if(a==b||b==c||c==a){
        printf("\nTriangle is Isosceles");
    }
    else{
        printf("\nTriangle is Scalene");
    }
    return 0;
}
```

```
Enter first side of triangle: 3
Enter second side of triangle: 4
Enter third side of triangle: 5

Triangle is Scalene
PS C:\Users\lalit>
```

Q16

//PROGRAM TO PRINT NATURAL NO. AND FIND ITS SUM

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

```
int main(){
    int n,i,c=0;
    printf("Enter the limit: ");
    scanf("%d",&n);
    for(i=1;i<=n;i++){
        printf("%d\n",i);
        c=c+i;
    }
    printf("\nThe sum no. till end is: %d",c);
    return 0;
}
```

```
1
2
3
4
5
6
7
8
9

The sum no. till end is: 45
PS C:\Users\lalit>
```

Q17

//CHECKING NO. IS EVEN OR ODD

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

```
int main(){
```

Abhishek Singh

```
int n,c=0,i;

printf("Enter the limit: ");

scanf("%d",&n);

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

    if(i%2==0){

        printf("\n%d",i);

        c=c+i;

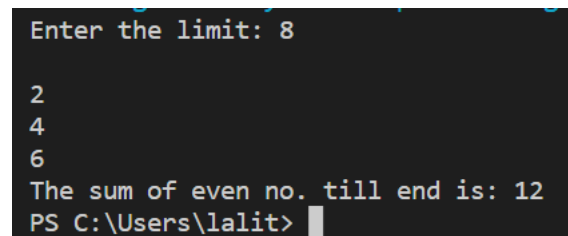
    }

}

printf("\nThe sum of even no. till end is: %d",c);

return 0;

}
```



```
Enter the limit: 8

2
4
6
The sum of even no. till end is: 12
PS C:\Users\lalit>
```

Q18

//TABLE USING FOR LOOP

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

```
int main(){

    int n,i;

    printf("Enter a num to find its table: ");

    scanf("%d",&n);

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

        printf("%d*%d=%d\n",n,i,n*i);

    }

}
```

Roll No : 2215000066


```
Enter a num to find its table: 4
4*1=4
4*2=8
4*3=12
4*4=16
PS C:\Users\lalit>
```

Q19

//FACTORIAL FINDING

#include <stdio.h>

```
int main(){
    int n,fact=1;
    printf("Enter a no to find its factorial: ");
    scanf("%d",&n);
    while(n>0){
        fact=fact*n;
        n=n-1;
    }
    printf("%d",fact);
}
```

```
Enter a no to find its factorial: 5
120
PS C:\Users\lalit>
```

Q20

//PALINDROME NO.

#include<stdio.h>

```
int main(){
    int n,temp,rem,sum=0;
    printf("Enter a no. to check whether PALINDROME or not: ");
    scanf("%d",&n);
    temp=n;
    while(n>0){
        rem=n%10;
        sum=(sum*10)+rem;
        n=n/10;
    }
```

```
}  
n=temp;  
if(n==sum)  
    printf("PALINDROME NO.");  
else  
    printf("NOT A PALINFROME NO.");  
}
```

```
Enter a no. to chech whether PALINDROME or not: 123321  
PALINDROME NO.  
PS C:\Users\lalit> █
```

Q21

//COUNT FREQUENCY OF A GIVEN ARRAY

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

```
int main(){  
    int n,i,key,count=0;  
    printf("Enter the size of an array: ");          //Taking Sixe Of An Array  
    scanf("%d",&n);  
    int a[n];  
    for(i=0;i<n;i++){                                //Taking Value Of Elements  
        printf("Enter the value for index%d: ",i);  
        scanf("%d",&a[i]);  
    }  
    printf("Enter the element to count its frquency: ");  
    scanf("%d",&key);  
    for(i=0;i<n;i++){  
        if(a[i]==key){  
            count++;  
        }  
    }  
    printf("The element occur %d times!!",count);  
}
```

```
Enter the value for index1: 3
Enter the value for index2: 4
Enter the value for index3: 5
Enter the value for index4: 6
Enter the value for index5: 7
Enter the value for index6: 8
Enter the value for index7: 1
Enter the value for index8: 0
Enter the element to count its frequency: 3
The element occur 1 times!!
```

Q22

//Program To Find LCM[Lowest Common Factors] & HCF[HighestC.M] Of To Two Integers

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

```
int main(){
```

```
    int n,a,b,max,fact=1;
```

```
    printf("Enter first no.: ");    //Taking Two No.
```

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

```
    printf("Enter second no.: ");
```

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

```
    printf("Press 1 for LCM or Press 2 for HCF: ");    //Taking Operation Type
```

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

```
    max=(a>b)?a:b;
```

```
    if(n==1){    //For LCM
```

```
        while(fact){
```

```
            if(max%a==0 && max%b==0){
```

```
                printf("LCM of %d & %d is: %d\n",a,b,max); //Printing LCM
```

```
                fact=0;
```

```
            }
```

```
            max++;
```

```
        }}
```

```
        else if(n==2){    //For HCF
```

```
            for(max;max>=1;max--){
```

```
                if(a%max==0 && b%max==0){
```

```
                    break;
```

```
                }}
```

```
printf("HCF of %d & %d is: %d",a,b,max);    //Printing HCF
}
else{                                         //For Inputting Value Other Than 1&2
    printf("Invalid Operations!!");
}
return 0;
}
```

```
Enter first no.: 25
Enter second no.: 80
Press 1 for LCM or Press 2 for HCF: 2
HCF of 25 & 80 is: 5
PS C:\Users\lalit>
```

Q23

//PRIME no. or not

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

```
int main(){
    int n,i,count=0;
    printf("Enter a no. to check whether PRIME no. or not: ");
    scanf("%d",&n);
    for(i=1;i<=n;i++){
        if(n%i==0){
            count=count+1;
        }
    }
    if(count==2)
        printf("PRIME NO.");
    else
        printf("NOT PRIME NO.");
}
```

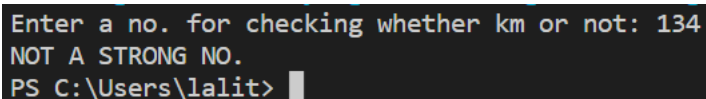
```
Enter a no. to check whether PRIME no. or not: 23
PRIME NO.
PS C:\Users\lalit>
```

Q24

//KRISHNAMURTI NUM OR ROBINSON NO OR STRONG NO.

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

```
int main(){
    int n,temp,rem,fact,sum=0;
    printf("Enter a no. for checking whether km or not: ");
    scanf("%d",&n);
    temp=n;
    while(n>0){
        rem=n%10;
        fact=1;
        while(rem>0){
            fact=fact*rem;
            rem--;
        }
        sum=sum+fact;
        n=n/10;
    }
    //temp=n;
    if(temp==sum)
        printf("STRONG NO.");
    else
        printf("NOT A STRONG NO.");
}
```



```
Enter a no. for checking whether km or not: 134
NOT A STRONG NO.
PS C:\Users\lalit>
```

Q25

//FABINACCO SERIES

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

```
int main(){
```

Abhishek Singh

```
int n,i,a=0,b=1,c;

printf("Enter the limit to find fabinacco series: ");

scanf("%d",&n);

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

    printf("%d\n",a);

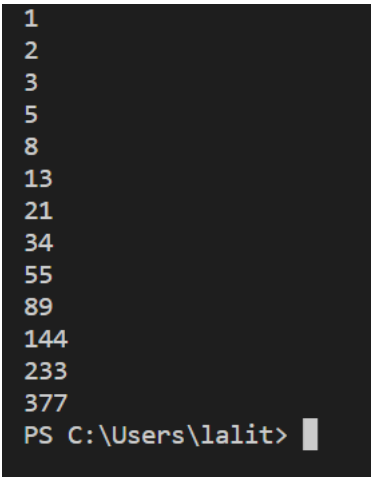
    c=a+b;

    a=b;

    b=c;

}

}
```



```
1
2
3
5
8
13
21
34
55
89
144
233
377
PS C:\Users\lalit>
```

Q26

//ARMSTRONG NUM OR NOT

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

```
int main(){

    int n,temp,rem,c,sum=0;

    printf("Enter the no. to check whether armstrong or not: ");

    scanf("%d",&n);

    temp=n;

    while(n>0){

        rem=n%10;

        c=rem*rem*rem;

        sum=sum+c;

        n=n/10;

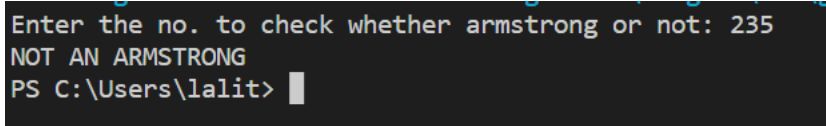
    }

}
```

Roll No : 2215000066

Abhishek Singh

```
    }  
    n=temp;  
    if(n==sum){  
        printf("ARMSTRONG");  
    }  
    else{  
        printf("NOT AN ARMSTRONG");  
    }  
}
```



```
Enter the no. to check whether armstrong or not: 235  
NOT AN ARMSTRONG  
PS C:\Users\lalit>
```

Q27

//PERFECT NO. OR NOT

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

```
int main(){  
    int n,i,sum=0;  
    printf("Enter a no. for checking PERFECT NUM OR NOT: ");  
    scanf("%d",&n);  
    for(i=1;i<=n/2;i++){  
        if(n%i==0){  
            sum=sum+i;  
        }  
    }  
    if(n==sum)  
        printf("PERFECT NO.");  
    else  
        printf("NOT A PERFECT NO.");  
}
```

Roll No : 2215000066

```
Enter a no. for checking PERFECT NUM OR NOT: 21
NOT A PERFECT NO.
PS C:\Users\lalit> █
```

Q28

//POWER OF ANY NO.

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

```
#include<math.h>
```

```
int main(){
    int a,b,power;
    printf("Enter the value: ");
    scanf("%d",&a);
    printf("Enter the base value: ");
    scanf("%d",&b);
    power=pow(a,b);
    printf("The power of %d is: %d",a,power);
}
```

```
Enter the value: 24
Enter the base value: 2
The power of 24 is: 576
PS C:\Users\lalit> █
```

Q29

//ASCII VALUE FINDING

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

```
int main(){
    int n;
    printf("Enter a no.: ");
    scanf("%c",&n);
    printf("%d",n);
}
```



```
Enter a no.: 19
49
PS C:\Users\lalit> |
```

Q30

/*Pascal's Triangle Printing

```

        1
      1   1
    1  2  1
  1  3   3  1
1 4 6 4 1 */
```

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

```
int main(){
```

```
    int row,i,j,space,coef=0;
```

```
    printf("Enter the size of rows: ");
```

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

```
    for(i=0;i<row;i++){           //For Space Printing
```

```
        for(space=1;space<=row-i;space++){
```

```
            printf(" ");}
```

```
    for(j=0;j<=i;j++){           //For No. Printing
```

```
        if(j==0 || i==0)
```

```
            coef=1;
```

```
        else
```

```
            coef=coef*(i-j+1)/j;
```

```
            printf(" %d",coef);
```

```
        }
```

```
        printf("\n");           //For New Line
```

```
    }
```

```
    return 0;
```

```
}
```

```
Enter the size of rows: 4
  1
 1 1
1 2 1
1 3 3 1
PS C:\Users\lalit>
```

Q31

//SUM OF AN ARRAY ELEMENTS

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

```
int main(){
```

```
    int n,i,sum=0;
```

```
    printf("Enter the size of an array: ");          //Taking Sixe Of An Array
```

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

```
    int a[n];
```

```
    for(i=0;i<n;i++){                                //Taking Value Of Elements
```

```
        printf("Enter the value for index%d: ",i);
```

```
        scanf("%d",&a[i]);
```

```
    }
```

```
    for(i=0;i<n;i++){
```

```
        sum=sum+a[i];
```

```
    }
```

```
    printf("The sum of elements of an array are:%d ",sum);
```

```
}
```

```
Enter the size of an array: 5
Enter the value for index0: 1
Enter the value for index1: 5
Enter the value for index2: 9
Enter the value for index3: 6
Enter the value for index4: 3
The sum of elements of an array are:24
-----
Process exited after 5.549 seconds with return value 0
Press any key to continue . . . |
```

Q32

//Program To Copy One Array Elements To Another Array

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

```
int main(){
    int n,j,i,sum=0;
    printf("Enter the size of an array: ");          //Taking Sixe Of An Array
    scanf("%d",&n);
    int a[n],b[n];
    for(i=0;i<n;i++){                                //Taking Value Of Elements
        printf("Enter the value for index%d: ",i);
        scanf("%d",&a[i]);
    }
    printf("You Entered:....");
    for(i=0;i<n;i++){
        printf("%d ",a[i]);
        b[i]=a[i];
    }
    printf("\nArray after copying:....");
    for(i=0;i<n;i++){
        printf("%d ",b[i]);
    }
}
```

```
    return 0;  
}
```

```
Enter the size of an array: 6  
Enter the value for index0: 1  
Enter the value for index1: 4  
Enter the value for index2: 7  
Enter the value for index3: 8  
Enter the value for index4: 5  
Enter the value for index5: 2  
You Entered:....1 4 7 8 5 2  
Array after copying:....1 4 7 8 5 2  
-----  
Process exited after 5 seconds with return value 0  
Press any key to continue . . . |
```

Q33

//INSERTING AN ELEMENT AT ANY GIVEN INDEX

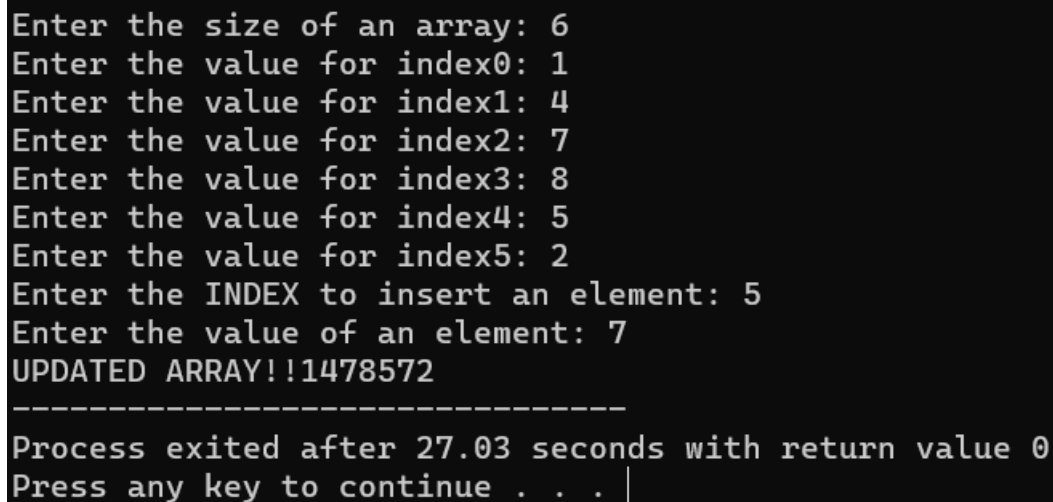
//Program To Insert Any Element At Any Given Point

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

```
int main(){  
    int n,i,value,pos;  
    printf("Enter the size of an array: ");          //Taking Sixe Of An Array  
    scanf("%d",&n);  
    int a[n+1];                                     //EXTRA BLOCK FOR INSERTION  
    for(i=0;i<n;i++){                               //Taking Value Of Elements  
        printf("Enter the value for index%d: ",i);  
        scanf("%d",&a[i]);  
    }  
    printf("Enter the INDEX to insert an element: ");  
    scanf("%d",&pos);  
    printf("Enter the value of an element: ");  
    scanf("%d",&value);  
    for(i=n;i>pos;i--){
```

```
        a[i]=a[i-1];
    }
    a[pos]=value;
    printf("UPDATED ARRAY!!");
    for(i=0;i<=n;i++)
        printf("%d",a[i]);

    return 0;
}
```

A screenshot of a terminal window with a black background and white text. It shows the execution of a C program. The user is prompted to enter the size of an array (6), then values for indices 0 through 5 (1, 4, 7, 8, 5, 2). Then, the user is prompted to enter the index to insert an element (5) and the value of the element (7). The output shows 'UPDATED ARRAY!!1478572'. Below this, a separator line is shown, followed by 'Process exited after 27.03 seconds with return value 0' and 'Press any key to continue . . . |'.

```
Enter the size of an array: 6
Enter the value for index0: 1
Enter the value for index1: 4
Enter the value for index2: 7
Enter the value for index3: 8
Enter the value for index4: 5
Enter the value for index5: 2
Enter the INDEX to insert an element: 5
Enter the value of an element: 7
UPDATED ARRAY!!1478572
-----
Process exited after 27.03 seconds with return value 0
Press any key to continue . . . |
```

Q34

//Program To Delete An Element In Array At Specified Position

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

```
#define MAX_SIZE 100
```

```
int main(){
```

```
    int arr[MAX_SIZE];
```

```
    int i, size, pos;
```

```
    printf("Enter size of the array : "); //Input size and element in array
```

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

```
    for(i=0; i<size; i++){
```

```
        printf("Enter the value of index[%d]: ",i);
```

```
        scanf("%d", &arr[i]);
```

```
    }

    printf("Enter the element position to delete : "); //Input element position to delete
    scanf("%d", &pos);
    if(pos < 0 || pos > size){    //Invalid delete position
        printf("Invalid position! Please enter position between 1 to %d", size);
    }
    else{    //Copy next element value to current element
        for(i=pos-1; i<size-1; i++){
            arr[i] = arr[i + 1];
        }
        size--;
        printf("\nElements of array after delete are : "); //Print array after deletion
        for(i=0; i<size; i++){
            printf("%d ", arr[i]);
        }
    }
    return 0;
}
```

```
Enter size of the array : 5
Enter the value of index[0]: 5
Enter the value of index[1]: 8
Enter the value of index[2]: 2
Enter the value of index[3]: 3
Enter the value of index[4]: 4
Enter the element position to delete : 3

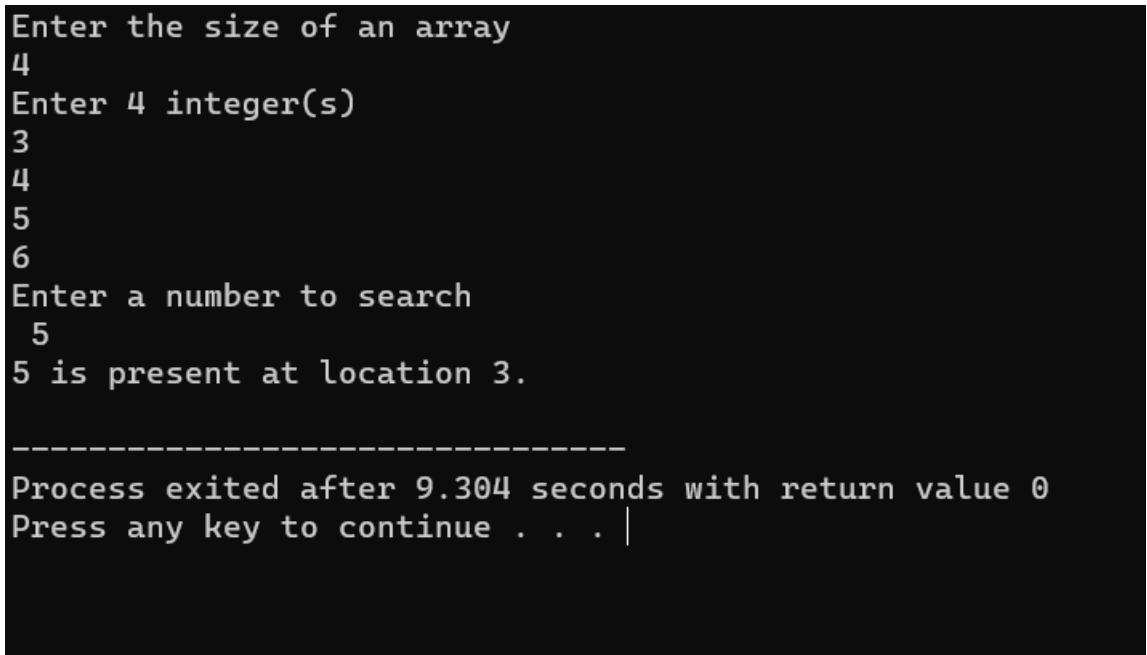
Elements of array after delete are : 5 8 3 4
-----
Process exited after 9.36 seconds with return value 0
Press any key to continue . . . |
```

Q35

//Linear Search Programm

#include <stdio.h>

```
int main(){
    int array[100], search, c, n;
    printf("Enter the size of an array\n");
    scanf("%d",&n);
    printf("Enter %d integer(s)\n", n);
    for (c=0;c<n;c++)                //Taking Value Of Indexes
        scanf("%d", &array[c]);
    printf("Enter a number to search\n ");
    scanf("%d", &search);
    for (c = 0; c < n; c++){
        if (array[c] == search){ /* If required element is found */
            printf("%d is present at location %d.\n", search, c+1);
            break;
        }
    }
    if (c == n)
        printf("%d isn't present in the array.\n", search);
    return 0;
}
```



```
Enter the size of an array
4
Enter 4 integer(s)
3
4
5
6
Enter a number to search
5
5 is present at location 3.

-----
Process exited after 9.304 seconds with return value 0
Press any key to continue . . . |
```

Q36A

//Program To Find Second Largest No.

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

```
int main(){
```

```
    int i,j,a,n,counter,ave,number[30];
```

```
    printf ("Enter the limit: ");
```

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

```
    for (i=0; i<n; ++i){
```

```
        printf ("Enter the value of index%d: ");
```

```
        scanf ("%d",&number[i]);}
```

```
    for (i=0; i<n; ++i){
```

```
        for (j=i+1; j<n; ++j){
```

```
            if (number[i] < number[j]){
```

```
                a = number[i];
```

```
                number[i] = number[j];
```

```
                number[j] = a;
```

```
            }
```

```
        }
```

```
    }
```

```
    printf ("The numbers arranged in descending order are:\n");
```

```
    for (i=0; i<n; ++i)
```

```
        printf ("%10d",number[i]);
```

```
    printf ("\nThe 2nd largest number is = %d", number[1]);
```

```
    printf ("\nThe 2nd smallest number is = %d", number[n-2]);
```

```
    ave = (number[1] +number[n-2])/2;
```

```
    counter = 0;
```

```
    for (i=0; i<n; ++i){
```

```
        if (ave==number[i])
```

```
            ++counter;
```

```
    }
```

```
    if (counter==0)
```



```
printf("\nThe average of 2nd largest & 2nd smallest is not in the array");  
else  
    printf("\nThe average of 2nd largest & 2nd smallest in array is %d in numbers", counter);  
}
```

```
Enter the limit: 5  
Enter the value of index-288650752: 2  
Enter the value of index-288650752: 5  
Enter the value of index-288650752: 85  
Enter the value of index-288650752: 7  
Enter the value of index-288650752: 8  
The numbers arranged in descending order are:  
      85      8      7      5      2  
The 2nd largest number is = 8  
The 2nd smallest number is = 5  
The average of 2nd largest & 2nd smallest is not in the array  
-----  
Process exited after 11.9 seconds with return value 0  
Press any key to continue . . . |
```

Q36B

//Bubble Sort Program

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

```
int main(){
```

```
    int arr[50], num, x, y, temp;
```

```
    printf("Enter the size of an array: ");
```

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

```
    for(x=0;x<num;x++){                //Taking Value Input
```

```
        printf("Enter the value of index%d: ",x);
```

```
        scanf("%d",&arr[x]);
```

```
    }
```

```
    x=0;
```

```
    while(x<num-1){
```

```
        y=0;
```

```
        while(y<num-x-1){
```

```
            if(arr[y]>arr[y+1]){                //Swapping
```

```
                temp=arr[y];
```

```
        arr[y]=arr[y + 1];
        arr[y+1]=temp;
    }
    y++;
}
x++;
}
printf("Array after implementing bubble sort: ");
for(x=0;x<num;x++)
    printf("%d ",arr[x]);
return 0;
}
```

```
Enter the size of an array: 5
Enter the value of index0: 1
Enter the value of index1: 4
Enter the value of index2: 5
Enter the value of index3: 6
Enter the value of index4: 7
Array after implementing bubble sort: 1 4 5 6 7
-----
Process exited after 6.338 seconds with return value 0
Press any key to continue . . . |
```

Q37

//Program To Remove Duplicate Element In An Array

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

```
#define MAX_SIZE 100 // Maximum array size
```

```
int main()
```

```
{
```

```
    int arr[MAX_SIZE];
```

```
    int i, j, size, count = 0;
```

```
    printf("Enter size of the array : "); //Taking Size Of AN Array
```

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

```
for(i=0;i<size;i++){           //Taking Value Of Element IN An Array
    printf("Enter the value of index%d: ",i);
    scanf("%d",&arr[i]);
}
for(i=0; i<size; i++){
    for(j=i+1; j<size; j++){    //Checkm For Duplicate Element
        if(arr[i] == arr[j]){
            count++;
            break;
        }
    }
}
printf("\nTotal number of duplicate elements found in array = %d", count);
return 0;
}
```

```
Enter size of the array : 4
Enter the value of index0:
5
Enter the value of index1: 6
Enter the value of index2: 6
Enter the value of index3: 7

Total number of duplicate elements found in array = 1
-----
Process exited after 7.039 seconds with return value 0
Press any key to continue . . . |
```

Q38

//Scalar Matrix Multiplication

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

```
#define SIZE 3 // Maximum size of the array
```

```
int main(){
```

```
    int num,n,i,j;
```

```
    printf("Enter the size of array: ");
```

```
scanf("%d",&n);
int A[n][n];
for(i=0;i<n;i++){
    for(j=0;j<n;j++){
        printf("Enter the value of index%d%d: ",i,j);
        scanf("%d",&A[i][j]);
    }
    printf("Enter any number to multiply with matrix A: ");
    scanf("%d",&num);
    for(i=0;i<n;i++){
        for(j=0;j<n;j++){
            A[i][j]=num*A[i][j];
        }
    }
    printf("\nResultant matrix c.A = \n");
    for(i=0;i<n;i++){
        for(j=0;j<n;j++){
            printf("%d ",A[i][j]);
        }
        printf("\n");
    }
    return 0;
}
```

```
Enter the size of array: 2
Enter the value of index0x0: 4
Enter the value of index0x1: 5
Enter the value of index1x0: 6
Enter the value of index1x1: 7
Enter any number to multiply with matrix A: 1

Resultant matrix c.A =
4 5
6 7

-----
Process exited after 41.87 seconds with return value 0
Press any key to continue . . . |
```

Q40

//Find Out Transpose Of A Matrix

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

```
int main(){
```

```
    int n,m,i,j;
```

```
    printf("Enter the size of rows: ");
```

//Taking Size Of Rows & Column

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

```
    printf("Enter the size of column: ");
```

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

```
    int a[n][m];
```

```
    for(i=0;i<n;i++){
```

//Inputing Values Of Elements

```
        for(j=0;j<m;j++){
```

```
            printf("Enter the value of index%d%d: ",i,j);
```

```
            scanf("%d",&a[i][j]);
```

```
        }
```

```
    }
```

```
    for(i=0;i<n;i++){
```

```
        for(j=0;j<m;j++){
```

```
            printf("%d ",a[i][j]);
```

```
        }
```

```
        printf("\n");
    }
    printf("Array Transpose Are!!\n");
    for(i=0;i<m;i++){
        for(j=0;j<n;j++){
            printf("%d ",a[j][i]);
        }
        printf("\n");
    }
```

```
Enter the size of rows: 2
Enter the size of column: 4
Enter the value of index00: 1
Enter the value of index01: 2
Enter the value of index02: 3
Enter the value of index03: 4
Enter the value of index10: 5
Enter the value of index11: 6
Enter the value of index12: 7
Enter the value of index13: 8
1 2 3 4
5 6 7 8
Array Transpose Are!!
1 5
2 6
3 7
4 8

-----
Process exited after 11.66 seconds with return value 0
Press any key to continue . . . |
```

Q41

//Check Whether A Matrix Is Identity Matrix Or Not

#include<stdio.h>

int main(){

int a[2][2],i,j,flag=0;

for(i=0;i<2;i++){

//Taking Values Of Matrix

for(j=0;j<2;j++){

```
        printf("Enter the value of inedx%d%d of Matrix1: ",i,j);
        scanf("%d",&a[i][j]);
    }

    for(i=0;i<2;i++){                //Checking Identity Matrix Or Not
        for(j=0;j<2;j++){
            if(i==j && a[i][j]==1){
                flag=1;
            }
            else if(i!=j && a[i][j]!=1)
                flag=0;
        }
    }
    if(flag==1){
        printf("IDENTITY MATRIX!!");
    }
    else{
        printf("NOT A IDENTITY MATRIX!!");
    }
}
```

```
Enter the value of inedx00 of Matrix1: 1
Enter the value of inedx01 of Matrix1: 1
Enter the value of inedx10 of Matrix1: 1
Enter the value of inedx11 of Matrix1: 1
IDENTITY MATRIX!!
-----
Process exited after 2.685 seconds with return value 0
Press any key to continue . . . |
```

Q42

//Merging Of Two Arrays

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

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

```
int main(){
```

```
int arr1[50], arr2[50], size1, size2, i, k, merge[100];

printf("Enter Array 1 Size: ");
scanf("%d", &size1);
printf("Enter Array 1 Elements: ");
for(i=0; i<size1; i++){
    scanf("%d", &arr1[i]);
    merge[i] = arr1[i];
}
k = i;
printf("\nEnter Array 2 Size: ");
scanf("%d", &size2);
printf("Enter Array 2 Elements: ");
for(i=0; i<size2; i++){
    scanf("%d", &arr2[i]);
    merge[k] = arr2[i];
    k++;
}
printf("\nThe new array after merging is:\n");
for(i=0; i<k; i++)
    printf("%d ", merge[i]);
return 0;
}
```



```
Enter Array 1 Size: 4
Enter Array 1 Elements: 4
5
6
7

Enter Array 2 Size: 3
Enter Array 2 Elements: 2
4
5

The new array after merging is:
4 5 6 7 2 4 5
-----
Process exited after 19.82 seconds with return value 0
Press any key to continue . . . |
```

Q43

//All String Operations

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

```
# include <string.h>
```

```
int main(){
```

```
char str1[40], str2[40] ;
```

```
printf("Enter the first string : ") ;
```

```
gets(str1) ;
```

```
printf("Enter the second string : ") ;
```

```
gets(str2) ;
```

```
printf("\nString 1 = %s & String 2 = %s ", str1, str2) ;
```

```
printf("\nUppercase is : %s and %s",strupr(str1),strupr(str2));
```

```
printf("\nLowercase is : %s and %s",strlwr(str1),strlwr(str2));
```

```
printf("\nReverse is : %s and %s",strrev(str1),strrev(str2)) ;
```

```
printf("\nString copy is : %s ",strcpy(str1,str2));
```

```
printf("\nConcatenation is : %s ",strcat(str1,str2));
```

```
return 0;
```

```
}
```

```
Enter the first string : hellogla
Enter the second string : glau

String 1 = hellogla & String 2 = glau
Uppercase is : HELLOGLA and GLAU
Lowercase is : hellogla and glau
Reverse is : algotleh and ualg
String copy is : ualg
Concatenation is : ualgualg
-----
Process exited after 11.11 seconds with return value 0
Press any key to continue . . . |
```

Q44

//Checking A String Is Palindrom Or Not.....Without Using String Functions

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

```
#include<string.h>
```

```
int main(){
```

```
    char str[100];
```

```
    int i,flag=0,len;
```

```
    printf("Enter the string to check palindrome or not: ");
```

```
    gets(str);
```

```
    len=strlen(str);
```

```
    for(i=0;i<len;i++){
```

```
        if(str[i]!=str[len-i-1]){
```

```
            flag=1;
```

```
            break;
```

```
        }
```

```
    }
```

```
    if(flag==0)
```

```
        printf("PALINDROME!!");
```

```
    else
```

```
        printf("NOT A PALINDROME!!");
```

```
}
```

```
Enter the string to check palindrome or not: nitin
PALINDROME!!
-----
Process exited after 11.59 seconds with return value 0
Press any key to continue . . . |
```

Q45

//Count Frequency Of A Given String

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

```
int main(){
    char str[20],a;
    int c=0,i;
    printf("Enter a string: ");
    gets(str);
    printf("Enter a character to count its frequency: ");
    scanf("%c",&a);
    for(i=0;str[i]!='\0';i++){
        if(a==str[i]){
            c++;
        }
    }
    printf("%c occur %d times.",a,c);
    return 0;
}
```

```
Enter a string: gla gla gla
Enter a character to count its frequency: a
a occur 3 times.
-----
Process exited after 6.715 seconds with return value 0
Press any key to continue . . . |
```

Q46

//Program To Find Diameter,Area&Circumference Of A Circle Given Radius

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

```
#include <math.h> // Used for constant PI referred as M_PI
```

```
double getDiameter(double radius);          //Function declaration
```

```
double getCircumference(double radius);
```

```
double getArea(double radius);
```

```
int main() {
```

```
    float radius, dia, circ, area;
```

```
    printf("Enter radius of circle: ");    //Taking Radius Of A Circle
```

```
    scanf("%f", &radius);
```

```
    dia = getDiameter(radius);    // Call getDiameter function
```

```
    circ = getCircumference(radius); // Call getCircumference function
```

```
    area = getArea(radius);        // Call getArea function
```

```
    printf("Diameter of the circle = %.2f units\n", dia);
```

```
    printf("Circumference of the circle = %.2f units\n", circ);
```

```
    printf("Area of the circle = %.2f sq. units", area);
```

```
}
```

```
double getDiameter(double radius){
```

```
    return (2 * radius);
```

```
}
```

```
double getCircumference(double radius) {
```

```
    return (2 * M_PI * radius);
```

```
}
```

```
double getArea(double radius){
```

```
    return (M_PI * radius * radius);
```

```
}
```

```
Enter radius of circle: 5
Diameter of the circle = 10.00 units
Circumference of the circle = 31.42 units
Area of the circle = 78.54 sq. units
-----
Process exited after 2.335 seconds with return value 0
Press any key to continue . . . |
```

Q47

//Program To Check A No. Is Armstrong, Perfect, And Prime Or nOT

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

```
#include <math.h>
```

```
int isPrime(int num); //Function declarations
```

```
int isArmstrong(int num);
```

```
int isPerfect(int num);
```

```
int main(){
```

```
    int num;
```

```
    printf("Enter any number: ");
```

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

```
    if(isPrime(num)){ // Call isPrime() functions
```

```
        printf("%d is Prime number.\n", num);
```

```
    }
```

```
    else{
```

```
        printf("%d is not Prime number.\n", num);
```

```
    }
```

```
    if(isArmstrong(num)){ // Call isArmstrong() function
```

```
        printf("%d is Armstrong number.\n", num);
```

```
    }
```

```
    else{
```

```
        printf("%d is not Armstrong number.\n", num);
```

```
    }
```

```
    if(isPerfect(num)){ // Call isPerfect() function
```

```
        printf("%d is Perfect number.\n", num);
    }
    else{
        printf("%d is not Perfect number.\n", num);
    }
    return 0;
}

int isPrime(int num){/* Check whether a number is prime or not.
```

```
    int i;          /* Returns 1 if the number is prime otherwise 0.
    for(i=2; i<=num/2; i++){
        if(num%i == 0){
            return 0;}}
    return 1;
}
```

```
int isArmstrong(int num){    //Check whether a number is Armstrong number or not.
    int lastDigit, sum, originalNum, digits;//Returns 1 if the number is Armstrong number
    otherwise 0.
    sum = 0;
    originalNum = num;
    digits = (int) log10(num) + 1;    //Find total digits in num
    while(num > 0){ //Calculate sum of power of digits
        lastDigit = num % 10; // Extract the last digit
        sum = sum + round(pow(lastDigit, digits));// Compute sum of power of last digit
        num = num / 10;    // Remove the last digit
    }
    return (originalNum == sum);
}
```

```
int isPerfect(int num){    //Check whether the number is perfect number or not.
    int i, sum, n;          //Returns 1 if the number is perfect otherwise 0.
    sum = 0;
    n = num;
```

```
for(i=1; i<n; i++){ // If i is a divisor of num
    if(n%i == 0){
        sum += i;
    }
}
return (num == sum);
}
```

```
Enter any number: 5
5 is Prime number.
5 is Armstrong number.
5 is not Perfect number.
```

```
-----
Process exited after 2.486 seconds with return value 0
Press any key to continue . . . |
```

Q48

//Add Two No. Using Pointers

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

```
int main(){
    int *p,*q,a,b,r;
    printf("Enter the num1: ");
    scanf("%d",&a);
    printf("Enter the num2: ");
    scanf("%d",&b);
    p=&a; //Giving address of variables to pointers
    q=&b;
    r=*p+*q;
    printf("The sum of no.: %d",r);
    // printf("The sum of no. %d & %d is: %d.",a,b,*r);
    return 0;
}
```

```
Enter the num1: 5
Enter the num2: 1
The sum of no.: 6
-----
Process exited after 3.139 seconds with return value 0
Press any key to continue . . . |
```

Q49

//Call by Value Example - Swapping 2 numbers using Call by Value

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

```
void swap(int, int);
```

```
int main(){
```

```
    int x, y;
```

```
    printf("Enter the value of x and y\n");
```

```
    scanf("%d%d",&x,&y);
```

```
    printf("Before Swapping\nx = %d\ny = %d\n", x, y);
```

```
    swap(x, y);
```

```
    printf("After Swapping\nx = %d\ny = %d\n", x, y);
```

```
    return 0;
```

```
}
```

```
void swap(int a, int b){
```

```
    int temp;
```

```
    temp = b;
```

```
    b = a;
```

```
    a = temp;
```

```
    printf("Values of a and b is %d %d\n",a,b);
```

```
}
```



```
Enter the value of x and y
5
3
Before Swapping
x = 5
y = 3
Values of a and b is 3 5
After Swapping
x = 5
y = 3

-----
Process exited after 4.729 seconds with return value 0
Press any key to continue . . . |
```

Q50 //Copy Array Using Pointers

```
#include <stdio.h>

#define MAX_SIZE 100 // Maximum array size

void printArray(int arr[], int size); //Function declaration to print array *

int main(){
    int source_arr[MAX_SIZE], dest_arr[MAX_SIZE];
    int size, i;

    int *source_ptr = source_arr; // Pointer to source_arr
    int *dest_ptr = dest_arr; // Pointer to dest_arr
    int *end_ptr;

    printf("Enter size of array: "); //Input size and elements in source array
    scanf("%d", &size);

    printf("Enter elements in array: ");
    for (i = 0; i < size; i++){
        scanf("%d", (source_ptr + i));
    }

    end_ptr = &source_arr[size - 1]; // Pointer to last element of source_arr

    printf("\nSource array before copying: "); //Print source and destination array before
    copying
    printArray(source_arr, size);
```

```
printf("\nDestination array before copying: ");
printArray(dest_arr, size);
while(source_ptr <= end_ptr){//Run loop till source_ptr exists in source_arr
    *dest_ptr = *source_ptr;// memory range.
    source_ptr++;          //Increment source_ptr and dest_ptr
    dest_ptr++;
}
printf("\n\nSource array after copying: ");// Print source and destination array after copying
printArray(source_arr, size);
printf("\nDestination array after copying: ");
printArray(dest_arr, size);
return 0;
}

void printArray(int *arr, int size){//Function to print array elements.
    int i;                                //@arr    Integer array to print.
    for (i = 0; i < size; i++){           //@size    Size of array.
        printf("%d, ", *(arr + i));
    }
}
```

```
Enter size of array: 4
Enter elements in array: 2
4
5
6

Source array before copying: 2, 4, 5, 6,
Destination array before copying: 1342177360, 5374032, 5505089, 5570649,

Source array after copying: 2, 4, 5, 6,
Destination array after copying: 2, 4, 5, 6,
-----
Process exited after 6.85 seconds with return value 0
Press any key to continue . . . |
```