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Experiment: 1

Aim: Get a character from user and print tell that is it vowel or consonant.

Software: Dev C++

Code:

```
#include<stdio.h>

int main()
{
    char string[50];
    int vowel=0,constant=0;

    printf("ENter A String:-");
    gets(string);

    for(int i=0;i<50;i++)
    {
        if(string[i]=='A' || string[i]=='E' || string[i]=='I' || string[i]=='O' ||
string[i]=='U' || string[i]=='a' || string[i]=='e' || string[i]=='i' || string[i]=='o' || string[i]=='u')
        {
            vowel++;
        }

        else if(string[i] == NULL)
        {
            break;
        }

        else
        {
            constant++;
        }
    }

    printf("There are %d Vowels and %d Constant",vowel,constant);

    return 0;
}
```

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Output:

```
D:\Aryan\Sem-1\ICP\Assigment\Daily Lab Assigment\Daily Lab Assigment-3\Pr
Enter A String:-ARYAN
There are 2 Vowels and 3 Constant
-----
Process exited after 2.063 seconds with return value 0
Press any key to continue . . .
```

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Experiment: 2

Aim: Write a program that take input of 5 subjects marks. If student get 40 or more then 40 then he is PASS in that subject otherwise FAIL print the result for following condition.

If student is pass in all subjects then declare PASS.

If student is fail in 1 or 2 subject then declare ATKT.

If student is fail in more then 2 subject then declare FAIL.

Software: Dev C++

Code:

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

```
int main()
```

```
{
```

```
    int marks,fail=0;
```

```
    for(int i=1;i<=5;i++)
```

```
    {
```

```
        printf("Enter The Marks- %d:-",i);
```

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

```
        if(marks<40)
```

```
        {
```

```
            fail++;
```

```
        }
```

```
    }
```

```
    if(fail==0)
```

```
    {
```

```
        printf("PASS");
```

```
    }
```

```
    else if(fail==1 || fail==2)
```

```
    {
```

```
        printf("ATKT");
```

```
    }
```

```
    else
```

```
    {
```

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```
        printf("FAIL");  
    }  
  
    return 0;  
}
```

Output:

```
D:\Aryan\Sem-1\ICP\Assigment\Daily Lab Assigment\Daily Lab Assigment-3'  
Enter The Marks-1:-56  
Enter The Marks-2:-56  
Enter The Marks-3:-54  
Enter The Marks-4:-23  
Enter The Marks-5:-12  
ATKT  
-----  
Process exited after 4.077 seconds with return value 0  
Press any key to continue . . .
```

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Experiment: 3

Aim: Write a program that performs the sum of given numbers until user says no using Go-To statement.

Software: Dev C++

Code:-

```
#include<stdio.h>

int main()
{
    int sum=0,n;

    printf("Press 0 To Exit\n");

    for(int i=1;i<=100;i++)
    {
        printf("Enter The Number:-");
        scanf("%d",&n);

        if(n==0)
        {
            printf("PROGRAMM ENDS\n");
            break;
        }

        else
        {
            sum=sum+n;
        }
    }

    printf("The Addition Of All Numbers That You Entered Is %d",sum);
}
```

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Output:

```
D:\Aryan\Sem-1\ICP\Assignment\Daily Lab Assignment\Daily Lab Assignment-3\Prog
Press 0 To Exit
Enter The Number:-1
Enter The Number:-2
Enter The Number:-3
Enter The Number:-4
Enter The Number:-5
Enter The Number:-6
Enter The Number:-7
Enter The Number:-0
PROGRAMM ENDS
The Addition Of All Numbers That You Entered Is 28
-----
Process exited after 5.355 seconds with return value 0
Press any key to continue . . .
```

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Experiment: 4

Aim: Except one no from user and find if it is Armstrong or not.

Software: Dev C++

Code:-

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

int main(void)
{
    int num,temp,i=0,ans,j,new_num=0,ans1=0;
    float rev_num=0;

    printf("Enter A Number:-");
    scanf("%d",&num);

    temp=num;
    new_num = num;

    while(num!= 0)
    {
        ans=num%10;
        num=num/10;
        i++;
    }

    for(j=1;j<=i;j++)
    {
        ans=0;
        ans=temp%10;
        temp=temp/10;
        ans1= pow(ans,i);
        rev_num = rev_num + ans1;
    }

    if(new_num == rev_num)
    {
        printf("%d Is An Armstrong Number",new_num);
    }
}
```

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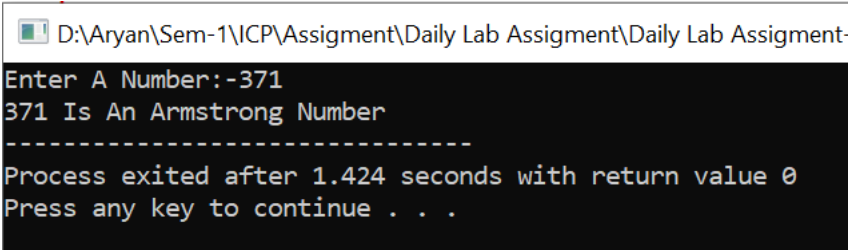


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```
    }  
  
    else  
    {  
        printf("%d Is Not An Armstrong Number",new_num);  
    }  
  
    return 0;  
}
```

Output:-



```
D:\Aryan\Sem-1\ICP\Assigment\Daily Lab Assigment\Daily Lab Assigment-  
Enter A Number:-371  
371 Is An Armstrong Number  
-----  
Process exited after 1.424 seconds with return value 0  
Press any key to continue . . .
```

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Experiment: 5

Aim:- Write a program to count the number of even numbers between 1 and 20

Software:- Dev C++

Code:-

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

```
int main()
```

```
{
```

```
    int num=0;
```

```
    for(int i=1;i<=20;i++)
```

```
    {
```

```
        if(i%2==0)
```

```
        {
```

```
            num++;
```

```
        }
```

```
    }
```

```
    printf("There Are %d Even Numbers in [1,20]",num);
```

```
    return 0;
```

}Output:-

```
D:\Aryan\Sem-1\ICP\Assignment\Daily Lab Assignment\Daily Lab Assignment-3\Pr
There Are 10 Even Numbers in [1,20]
-----
Process exited after 0.05999 seconds with return value 0
Press any key to continue . . .
```