Name: M. Salar Azam

Reg no:479001

Programming lab task 3

Class ME-15(C)

Q1:Write a program to check if an alphabet is vowel or consonant.

```
#include <iostream>
using namespace std;

int main(){
 char alphabet;
cout<<"Enter an alphabet";
 cin>>alphabet;
 switch(alphabet) {
 case'a':
 case'e':
 case'i':
 case'o':
 case'u':
 case'A':
 case'E':
 case'I':
 case'O':
 case'U':
 cout<<"Your alphabet is a vowel and you are great"<<endl;
 break;
 default:
 cout<< "Your alphabet is a consonant open your eyes"<<endl;
```

```
}
  return 0;
}
```

Q2:Write a program to show whether a person is an adult , child or a teenager.

```cpp
l#include <iostream>
using namespace std;

int main(){
int age;
cout<<"Please enter age to clarify";
cin >>age;

if(age>=13 && age<=19)
{cout<<"You are a teenager focus on your studies"<<endl;}
else if(age<13)
{cout<<"You are a child so go enjoy your life"<<endl;}
else{cout<<"You are an adult support you family"<<endl;
}
return 0;

}
```

Q3:Write a program to show that alphabets are vowels or consonants using nested if else.

```cpp
#include <iostream>
using namespace std;

 int main(){
 char alphabet;
```

```cpp
 cout<<"please enter an alphabet";

 cin>> alphabet;

 if(alphabet>='a' && alphabet<='z')

 {

if(alphabet=='a'||alphabet==
'e'||alphabet=='i'||alphabet=='o'||alphabet=='u'||alphabet=='A'||alphabet=='E'||alphabet=='I'||al
phabet=='O'||alphabet=='U')

{cout<<"Your alphabet is a vowel"<<endl;}

else{cout<<"Your alphabet is a consonant"<<endl;}

} else{cout<< "it is not an alphabet"<<endl;

} return 0;

 }
```

Q4:Write a program to find largest of three numbers usin nested if else statement.

```cpp
        #include<iostream>

using namespace std;

int main(){

double num1,num2,num3;

cout<<"Enter first number:"<<endl;

cin>>num1;

cout<<"Enter second number:"<<endl;

cin>>num2;

cout<<"Enter third number:"<<endl;

cin>>num3;

if(num1>=num2){

        if(num1>num3)

        {cout<<"The largest number is:"<<num1<<endl;}

else{cout<<"The largest number is:"<<num3<<endl;}

}else

if(num1>=num3){
```

```cpp
 if(num1>num2)

        {cout<<"The largest number is:"<<num1<<endl;}

        else{cout<<"The largest number is:"<<num2<<endl;}

        }

else{

        if(num2>=num3){

        if(num2>num1)

{cout<<"The largest number is:"<<num2<<endl;}

else{cout<<"The largest number is:"<<num1<<endl;}

}

return 0 ;

        }
```

Q5:Write a program to determine whether a number is zero, positive or negative.

```cpp
        #include <iostream>
using namespace std;


int main(){
int num;
cout<<"Please enter a number:";
cin>>num;
 switch(num){
case 0:
        cout<<"The number is equal to zero"<<endl;
        break;
 default:
 if(num>0)
{cout<<"Number you have written is positive:"<<endl;
}else {cout<<"The number you are have written is negative:";
```

```
}}
return 0;

}
```

Q6:Write a program to print the population of provinces of Pakistan.

```cpp
#include <iostream>
using namespace std;
int main(){
char province;
cout<<"P for Punjab,S for Sindh ,B for Balochistan ,K for KPK :";
cin>>province;
switch(province)
{
        case 'P':
        cout<<"Population=1274700:"endl;
        break;
        case 'S':
        cout<<"Population=54858515:"endl;
        break;
        case'B':
        cout<<"Population=21700000:"endl;
        break;
        case 'K':
        cout<<"Population=390000:"endl;
        break;
```

```
}
    return 0; }
```