**DSA0136: -OBJECT ORIENTED PROGRAMMING WITH C++ FOR SCANNING**

DATE:-29-08-22

1.Write a C++ Program for vote eligibility

PROGRAM:-

#include<iostream>

using namespace std;

int main()

{

int age;

cout<<"Enter your age = ";

cin>>age;

if(age>0)

{

if(age>18)

{

cout<<"you are eligibile to vote";

}

else

{

cout<<"Sorry,You are not eligible";

}

}

else

{

cout<<"Invalid input";

}

return 0;

}

Output:

Enter your age = 25

you are eligibile to vote

Enter your age = -12

Invalid input

Enter your age = x

Invalid input

2.Write a C++ Program to find the given nuber is odd or even

PROGRAM:-

#include<iostream>

using namespace std;

int main()

{

int n;

cout<<"Enter the number= ";

cin>>n;

if(int(n) && n>=0)

{

if(n%2==0)

{

cout<<"It is a Even number";

}

else

{

cout<<"It is a Odd number";

}

}

else if(int(n) && n<0)

{

if(n%2==0)

{

cout<<"It is Even negative number";

}

else

{

cout<<"It is Odd negative number";

}

}

else

{

cout<<"Invalid input";

}

return 0;

}

Output:

Enter the number= 5

It is a Odd number

Enter the number= 6

It is a Even number

Enter the number= x

Invalid input

3.Write a C++ Program to find the Area and the Circumference of the circle using switch case.

PROGRAM:-

#include<iostream>

using namespace std;

int main()

{

int choice,r;

float area,circumference;

cout<<"Enter the value of r= ";

cin>>r;

cout<<"Enter your choice = ";

cin>>choice;

switch(choice)

{

case 1:

{

cout<<"Area of the circle= ";

area=3.14\*r\*r;

cout<<area;

}

break;

case 2:

{

cout<<"cirumference of the circle= ";

circumference=2\*3.14\*r;

cout<<circumference;

}

break;

default:

{

cout<<"Enter the corect choice";

}

}

return 0;

}

Output:

Enter the value of r= 6

Enter your choice = 1

Area of the circle= 113.04

Enter the value of r= 7

Enter your choice = 2

cirumference of the circle= 43.96