DAY – 1 (26/09/22) K.UDAYKUMAR(192110467)

Object Oriented Programming with C++.-DSA0136

Programs:

1) Write a C++ Program to print Your Name.

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"udaykumar\n";
}
```

Output:

```
udaykumar

--------------------------------
Process exited after 0.0364 seconds with return value 0
Press any key to continue . . .
```

2) Write a C++ Program to find the mathematical Operations.

Program:

```
#include<iostream>
using namespace std;
int main()
{
    int a,b,c,d,e,f,g;
    cout<<"Enter the value of A = ";
    cin>>a;
    cout<<"Enter the value of B = ";
    cin>>b;
    c=a+b;
    d=a-b;
```

```
e=a*b;
f=a/b;
g=a%b;
cout<<"\nsum of A and B = "<<c;
cout<<"\ndifference of A and B = "<<d;
cout<<"\nproduct of A and B = "<<e;
cout<<"\ndivision of A and B = "<<f;
cout<<"\nModulus of A and B = "<<g;
        return 0;
}
```

Output:

```
Enter the value of A = 56
Enter the value of B = 5

sum of A and B = 61
difference of A and B = 51
product of A and B = 280
division of A and B = 11
Modulus of A and B = 1
--------------------------------
Process exited after 8.908 seconds with return value 0
Press any key to continue . . .
```

3) Write a C++ program to find the biggest of two numbers.

Program:

```
#include<iostream>

using namespace std;

int main()

{

    int a,b;

    cout<<"enter two numbers";
```

```
    cin>>a>>b;
    {
        if(a>b)
        cout<<"a is greater";
        else
        cout<<"b is greater";
    }
```

Output:

```
enter two numbers56 78
b is greater
--------------------------------
Process exited after 6.159 seconds with return value 0
Press any key to continue . . .
```

4) Write a C++ program to find the given number is Odd or Even.

Program:

```
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the value of N = ";
    cin>>n;
    if(n%2==0)
    {
```

```
        cout<<"The given value if Even";
}
else
{
        cout<<"The given value if Odd";
    }

    return 0;
}
```

Output:

```
Enter an integer: 46
46 is even.
--------------------------------
Process exited after 4.204 seconds with return value 0
Press any key to continue . . .
```

5) Write a C++ Program to find the person is eligible for voting or not:

Program:

```
#include<iostream>

using namespace std;

int main()
{
    float a;
    int r;
    cout<<"Enter your age = ";
    cin>>a;
```

```
r=a/1;
if(a>0)
{
        if(a>=0&&r*1==a)
        {
if(a>=18)
{
        cout<<"You are eligible";
}
else
{
        cout<<"You are not Eligible for voting";
}
        }
        else
        {
                cout<<"Invalid input";
        }
}
else
{
        cout<<"Invalid Input";
}
return 0;
}
```

Output:

```
enter the age18
eligible to vote
--------------------------------
Process exited after 3.854 seconds with return value 0
Press any key to continue . . .
```

```
Enter your age = 12
You are not Eligible for voting
--------------------------------
Process exited after 8.703 seconds with return value 0
Press any key to continue . . .
```

```
Enter your age = 45.6
Invalid input
--------------------------------
Process exited after 6.489 seconds with return value 0
Press any key to continue . . .
```

6) Write a C++ program to print the student report using the given Inputs:

Program:

```
#include<iostream>

using namespace std;

int main()

{

    int r,r1,r2,r3;

    char name[10];
```

```
float a,b,c,tot,avg;
cout<<"Enter the value of M1 = ";
cin>>a;
cout<<"Enter the value of M2 = ";
cin>>b;
cout<<"Enter the value of M3 = ";
cin>>c;
r1=a/1;
r2=b/1;
r3=c/1;
if(a>0 && b>0 && c>0)
{
        if(a>=0 && r1*1==a && b>=0 && r2*1==b && c>=0 && r3*1==c)
    {
        if(a>50 && a<=100 && b>50 && c<=100 && a>50 && a<=100)
        {
            tot=a+b+c;
            avg=tot/3;
            cout<<"total = "<<tot;
            if(avg>90)
            {
                cout<<"\nAvg ="<<avg<<"\nGrade:S";
    }
    else if(avg>80 && avg<=90)
    {
            cout<<"Avg ="<<avg<<"\nGrade:A";
```

```
}
else if(avg>70 && avg<=80)
{
        cout<<"Avg ="<<avg<<"\nGrade:B";
}
else if(avg>60 && avg<=70)
{
        cout<<"Avg ="<<avg<<"\nGrade:C";
}
else if(avg>50 && avg<=60)
{
        cout<<"Avg ="<<avg<<"\nGrade:D";
}
        else
        {
                cout<"No Grade is Alloted";
        }
}
else
{
        cout<<"You Failed or Invalid input";
        }
}
else
{
        cout<<"\nInvalid Input";
```

```
        }
    }
    else
    {
        cout<<"\nInvalid Input";
    }
    return 0;
}
```

Output: