

# *TASK 1*

f task 1.cpp X

```
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter a number";
    cin>>n;
    if(n>0)
    {if(n>100)
    {cout<<"the number is larger"<<endl;}}
    if(n<=100)
    {cout<<"the number is smaller"<<endl;}}
    }
    if(n>0)
    {if(n<100)
    {cout<<"the number is very small"<<endl;}}
    if(n>=100)
    {cout<<"the number is very small"<<endl;}}
    }
    if(n=0)
    {cout<<"the number is zero"<<endl;}}
    }
    return 0;
}
```

C:\Users\Apple\Documents\if task 1.exe

```
Enter a number57
the number is smaller
the number is very small
-----
Process exited after 7.313 seconds with return value 0
Press any key to continue . . .
```

## TASK 2

```
#include<iostream>
using namespace std;
int main()
{
    int age;
    cout<<"enter your age";
    cin>>age;
    if(age<0)
    {cout<<"Invalid age"<<endl;}
    else if(age>13&& age<12)
    {cout<<"child"<<endl;}
    if(age>13)
    {cout<<"Teen"<<endl;}
    else
    {cout<<"teenage"<<endl;}
    if (age>20 && age<60)
    {cout<<"adult"<<endl;}
    else if(age>60)
    {cout<<"senior citizen"<<endl;}
    return 0;
}
```

```
C:\Users\Apple\Documents\if task2.exe
enter your age35
Teen
adult

-----
Process exited after 3.333 seconds with return value 0
Press any key to continue . . .
```

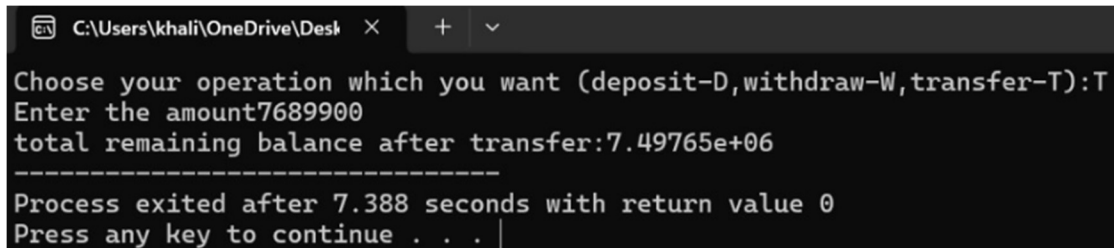
# TASK 3

```
#include<iostream>
using namespace std;
int main()
{
    int n1,n2;
    char opt;
    cout<<"Enter 1st number"<<endl;
    cin>>n1;
    cout<<"Enter 2nd number"<<endl;
    cin>>n2;
    cout<<"Enter opt"<<endl;
    cin>>opt;
    switch(opt)
    {
        case '+':
            cout<<n1+n2;
            break;
        case '-':
            cout<<n1-n2;
            break;
        case '*':
            cout<<n1*n2;
            break;
        case '/':
            cout<<n1/n2;
            break;
        default:
            cout<<"Invalid number";
    }
    return 0;
}
```

```
C:\Users\Apple\Documents\pf switch task calculator.exe
Enter 1st number
8
Enter 2nd number
10
Enter opt
+
18
-----
Process exited after 8.2 seconds with return value 0
Press any key to continue . . .
```

# *TASK 4*

```
#include<iostream>
using namespace std;
int main()
{
    char operation;
    double amount,finalamount;
    cout<<"Choose your operation which you want (deposit-D,withdraw-W,transfer-T):";
    cin>>operation;
    cout<<"Enter the amount";
    cin>>amount;
    switch(operation){
        case 'D':
            finalamount=amount-(0.5/100*amount);
            cout<<"total remaining balance after deposite:"<<finalamount;
            break;
        case 'W':
            finalamount=amount-(1.5/100*amount);
            cout<<"total remaining balance after withdraw:"<<finalamount;
            break;
        case 'T':
            finalamount=amount-(2.5/100*amount);
            cout<<"total remaining balance after transfer:"<<finalamount;
            break;
        default:
            cout<<"invalid operation";
    }
    return 0;
}
```



```
C:\Users\khali\OneDrive\Desktop >
Choose your operation which you want (deposit-D,withdraw-W,transfer-T):T
Enter the amount7689900
total remaining balance after transfer:7.49765e+06
-----
Process exited after 7.388 seconds with return value 0
Press any key to continue . . . |
```

# TASK 5

```
#include<iostream>
using namespace std;
int main()
{
    int num;
    cout<<"enter the number"<<endl;
    cin>>num;
    switch(num)
    {
        case'1':
            cout<<"Start of the week"<<endl;
            break;
        case'2':
            cout<<"Its tuesday, stay productive"<<endl;
            break;
        case'3':
            cout<<"Midweek motivation!"<<endl;
            break;
        case'4':
            cout<<"Almost the weekend"<<endl;
            break;
        case'5':
            cout<<"TGIF"<<endl;
            break;
        case'6':
            cout<<"Relax its Saturday"<<endl;
            break;
        case'7':
            cout<<"Enjoy your Sunday!"<<endl;
            break;
        default:
            cout<<"Invalid day selection"<<endl;
    }
    return 0;
}
```

```
C:\Users\Apple\Documents\switch case task 5.exe
enter the number
7
Enjoy your Sunday!

-----
Process exited after 2.447 seconds with return value 0
Press any key to continue . . .
```

# TASK 6

```
#include<iostream>
using namespace std;
int main()
{
    int score;
    cout<<"enter the exam score out of 100"<<endl;
    cin>>score;
    if(score>=90)
    {cout<<"grade A";}
    else if(score>80&&score<89){
        if(score>=85)
        {cout<<"grade B+";}
        else
        {cout<<"grade B";}
    }
    else if(score>70&&score<79){
        if(score>=75)
        {cout<<"grade C+";}
        else
        {cout<<"grade C";}
    }
    else if(score>60&&score<69){
        cout<<"grade D";}
        else
        {cout<<"grade F";}
        return 0;
    }
```

```
C:\Users\Apple\Documents\nested if score task 6.exe
enter the exam score out of 100
99
grade A
-----
Process exited after 3.702 seconds with return value 0
Press any key to continue . . .
```