

```
1  /*Write a C++ program which takes any 20 integer inputs from user and print number of positive numbers, number of negative numbers, number of odd
2  numbers, number of even numbers and number of 0. Use arrays. */
3  #include<iostream>
4  #define n 20
5  using namespace std;
6
7  int main()
8  {
9      int a[n],pos=0,neg=0,even=0,odd=0,zero=0;
10     cout<<"Enter the "<<n<<" no "<<endl;
11
12     for(int i=0; i<n;i++) {
13         cin>>a[i];
14
15         if(a[i]==0){
16             zero++;
17         }else if (a[i]>0){
18             pos++;
19         }else{
20             neg++;
21         }
22
23         if(a[i]==0){
24             even++;
25         }else {
26             odd++;
27         }
28     }
29
30     cout<<"\n POSTIVE : "<<pos<<endl;
31     cout<<"NEGATIVE : "<<neg<<endl;
32     cout<<"EVEN : "<<even<<endl;
33     cout<<"ODD : "<<odd<<endl;
34     cout<<"ZERO : "<<zero<<endl;
35 }
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```
POSTIVE :20
NEGATIVE :0
EVEN :10
ODD :10
ZERO :0
```

```
-----
Process exited after 16.82 seconds with return value 0
Press any key to continue . . .
```



Search

ENG
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```
1  /* Write a C++ program to
2  a. create a class known as "BankAccount" with methods called deposit() and withdraw() .
3  b. Create a subclass called SavingsAccount that overrides the withdraw() method to prevent withdrawals if the account balance falls below one hundred.
4  c. Create a subclass called CurrentAccount that overrides the withdraw() method to prevent overdraft withdrawals upto Rs.50000.
5  d. Implement run time polymorphism by calling withdraw() on appropriate account holders. You may add other features in respective classes in addition to
6     what is given.*/
```

```
7
8  #include <iostream>
9  using namespace std;
10
11 class BankAccount {
12 protected:
13     double balance;
14
15 public:
16     BankAccount() : balance(0.0) {}
17     void deposit(double amount) {
18         if (amount > 0) {
19             balance += amount;
20             cout << "Deposit of Rs." << amount << " successful. New balance: Rs." << balance << endl;
21         } else {
22             cout << "Invalid deposit amount." << endl;
23         }
24     }
25     virtual void withdraw(double amount) {
26         if (amount <= balance) {
27             balance -= amount;
28             cout << "Withdrawal of Rs." << amount << " successful. New balance: Rs." << balance << endl;
29         } else {
30             cout << "Insufficient funds for withdrawal." << endl;
31         }
32     }
33 };
34 class SavingsAccount : public BankAccount {
```

```
D:\CDAC TVM NOTES\ x + - □ x
s.4000
Deposit of Rs.10000 successful. New balance:
Rs.10000
Withdrawal of Rs.800 successful. New balance:
Rs.3200
Withdrawal not allowed. Overdraft limit excee
ded.

-----
Process exited after 0.07338 seconds with ret
urn value 0
Press any key to continue . . .
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```

D:\CDAC TVM NOTES\c++ practice\TEST 1\2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
1.1.cpp 2.cpp
34 class SavingsAccount : public BankAccount {
35 public:
36 void withdraw(double amount) override {
37     if (amount <= balance && balance - amount >= 100.0) {
38         balance -= amount;
39         cout << "Withdrawal of Rs." << amount << " successful. New balance: Rs." << balance << endl;
40     } else {
41         cout << "Withdrawal not allowed. Minimum balance requirement not met." << endl;
42     }
43 }
44 };
45
46 class CurrentAccount : public BankAccount {
47 public:
48 void withdraw(double amount) override {
49     if (amount <= balance && amount <= 230000.0) {
50         balance -= amount;
51         cout << "Withdrawal of Rs." << amount << " successful. New balance: Rs." << balance << endl;
52     } else {
53         cout << "Withdrawal not allowed. Overdraft limit exceeded." << endl;
54     }
55 }
56 };
57
58 int main() {
59     SavingsAccount savingsAcc;
60     CurrentAccount currentAcc;
61
62     savingsAcc.deposit(4000.0);
63     currentAcc.deposit(10000.0);
64
65     savingsAcc.withdraw(800.0);
66     currentAcc.withdraw(24000.0);
67     return 0;

```

```

D:\CDAC TVM NOTES\
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Withdrawal of Rs.800 successful. New balance:
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Process exited after 0.07338 seconds with ret
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Press any key to continue . . . |

```

Compiler (2) Resources Compile Log Debug Find Results

Line: 22 Col: 50 Sel: 0 Lines: 69 Length: 2433 Insert Done parsing in 0.015 seconds



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```

D:\CDAC TVM NOTES\c++ practice\TEST 1\2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
1.1.cpp 2.cpp
37     if (amount <= balance && balance - amount >= 100.0) {
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69

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