

Practical 03 – 22001212

01)

```
main.cpp X main.cpp X
1      #include <iostream>
2
3      using namespace std;
4
5      int main()
6      {
7          //Question 01
8          int num;
9          cout<<"\nEnter the value : ";
10         cin>>num;
11         cout<<"\nThe absolute value is :";
12         if(num<0){
13             cout<<0-num;
14         }
15         else{
16             cout<<num-0;
17         }
18         cout<<"\n";
19     }
```

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```
Enter the value : -100
The absolute value is :100
```

02)

```
20      //Question 02
21      int n;
22      cout<<"\nEnter the number : ";
23      cin>>n;
24      cout<<n<<" is ";
25      if(n%2==0){
26          cout<<"even";
27      }
28      else{
29          cout<<"odd";
30      }
31      cout<<"\n";
32  }
```

```
Enter the number : 86
86 is even
```

```
Enter the number : 75
75 is odd
```

03)

```
33 //Question 03
34 int arr[3],largest;
35 cout<<"\nEnter three numbers : ";
36 for(int i=0;i<3;i++){
37     cin>>arr[i];
38 }
39 cout<<"\nThe numbers are : ";
40 for(int i=0;i<3;i++){
41     cout<<arr[i]<<",";
42 }
43 largest=arr[0];
44 for(int i=0;i<3;i++){
45     if(arr[i]>=largest){
46         largest=arr[i];
47     }
48 }
49 cout<<"\nThe largest number is : "<<largest;
50 cout<<"\n";
```

```
Enter three numbers : 65
12
56

The numbers are : 65,12,56,
The largest number is : 65
```

03-a)

```
53 int x,y,z,mid;
54 cout<<"\nEnter value for x : ";
55 cin>>x;
56 cout<<"\nEnter value for y : ";
57 cin>>y;
58 cout<<"\nEnter value for z : ";
59 cin>>z;
60
61 if(x<y && y<z || z<y && y<x){
62     mid=y;
63 }
64 else if(y<z && z<x || x<z && z<y){
65     mid=z;
66 }
67 if(y<x && x<z || z<x && x<y){
68     mid=x;
69 }
70 cout<<"\nThe middle number is : "<<mid;
71 cout<<"\n";
```

```

Enter value for x : 12
Enter value for y : 96
Enter value for z : 56
The middle number is : 56

```

03-b)

```

73 //Question 03 - b
74 mid=(x < y) ? ((y < z) ? y : ((x < z) ? z : x)) : ((x < z) ? x : ((y < z) ? z : y));
75 cout<<"\nThe middle number is : "<<mid;
76 cout<<"\n";
77

```

```

The numbers are : 65,12,56,
The largest number is : 65

Enter value for x : 12
Enter value for y : 96
Enter value for z : 56
The middle number is : 56
The middle number is : 56

```

04)

```

78 //Question 04
79 int temperature;
80 cout<<"\nEnter the temperature: ";
81 cin>>temperature;
82 if(temperature<50){
83     if(temperature<30){
84         cout<<"\nWear the down jacket 1";
85     }
86     else{
87         cout<<"\nNo need to worry about the jacket";
88     }
89 }
90 else{
91     cout<<"\nYou have entered an invalid temperature.";
92 }
93
94 return 0;
95 }

```

```
Enter the temperature: 35

No need to worry about the jacket
Process returned 0 (0x0)   execution time : 798.204 s
Press any key to continue.
```

05-a)

```
1  #include <iostream>
2
3  using namespace std;
4
5  int main()
6  {
7      //Question 05 - a
8      int sub1,sub2,sub3,avg;
9      string remark;
10     cout<<"\nEnter the marks for Subject 1 : ";
11     cin>>sub1;
12     cout<<"\nEnter the marks for Subject 2 : ";
13     cin>>sub2;
14     cout<<"\nEnter the marks for Subject 3 : ";
15     cin>>sub3;
16     avg=(sub1+sub2+sub3)/3;
17     if(avg>=70){
18         cout<<"\nVery good.";
19     }
20     else if(70>avg>=55){
21         cout<<"\nGood.";
22     }
23     else if(55>avg>=40){
24         cout<<"\nPass.";
25     }
26     else if(40>avg){
27         cout<<"\nFail.";
28     }
29     else if(avg<0){
30         cout<<"\nInvalid Mark.";
31     }
32     cout<<"\n";
```

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```
Enter the marks for Subject 1 : 60
Enter the marks for Subject 2 : 75
Enter the marks for Subject 3 : 85
Very good.
```

05-b)

```

33 //Question 05 - b
34
35 avg>=70 ? remark="Very good":(70>avg>=55 ? remark="Good":
36 (55>avg>=40 ? remark="Pass":(40>avg>=0 ? remark="Fail": remark="Invalid Mark")));
37 cout<<remark;
38 cout<<"\n";
39

```

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```

Enter the marks for Subject 1 : 60
Enter the marks for Subject 2 : 75
Enter the marks for Subject 3 : 85

Very good.
Very good

```

06.

```

40 //Question 06
41 int c,f,ch;
42 cout<<"\nEnter your choice : 1.Convert Centigrade into Fahrenheit 2.Convert Fahrenheit into Centigrade 3.Exit ";
43 cin>>ch;
44 while(ch!=3){
45     if(ch==1){
46         cout<<"\nEnter the temperature in Centigrade : ";
47         cin>>c;
48         cout<<"Temperature in Fahrenheit : "<<c*(9/5)+32;
49     }
50     else if(ch==2){
51         cout<<"\nEnter the temperature in Fahrenheit : ";
52         cin>>f;
53         cout<<"Temperature in Centigrade : "<<(f-32)*5/9;
54     }
55     cout<<"\nEnter your choice : 1.Convert Centigrade into Fahrenheit 2.Convert Fahrenheit into Centigrade 3.Exit ";
56     cin>>ch;
57 }
58 cout<<"\n";
59 return 0;

```

Enter your choice : 1.Convert Centigrade into Fahrenheit 2.Convert Fahrenheit into Centigrade 3.Exit 1

Enter the temperature in Centigrade : 0

Temperature in Fahrenheit : 32

Enter your choice : 1.Convert Centigrade into Fahrenheit 2.Convert Fahrenheit into Centigrade 3.Exit 2

Enter the temperature in Fahrenheit : 32

Temperature in Centigrade : 0

Enter your choice : 1.Convert Centigrade into Fahrenheit 2.Convert Fahrenheit into Centigrade 3.Exit 3

Process returned 0 (0x0) execution time : 47.853 s

Press any key to continue.