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ESFP-2 (2CSE203)

Date
Page 1

Ans 1

```
#include <iostream>
#include <cstring>
#include <fstream>

using namespace std;

struct Employee
{
    char emp_name[20];
    int emp_ID;
    float salary;
};

int main()
{
    struct Employee E;
    FILE *fp;
    char c;
    int ch;

    while(1)
    {
        cout<<"\n(a) Add record in text file.";
        cout<<"\n(b) Display record on screen";
        cout<<"\n(c) exit";
        cout<<"\n Enter your choice ?: ";
        cin>>ch;
```

```
switch (ch)
{
    case 'a':
        fp = fopen ("employee.txt", "ab")
        while (1)
        {
        cout << "\n Enter employee name: ";
        cin >> E.emp-name;
        cout << "\n Enter employee ID: ";
        cin >> E.emp_ID;
        cout << "\n Enter employee salary: ";
        cin >> E.salary;

        fwrite (&E, sizeof (E), 1, fp);
        cout <<"\n Do you want to continue ? (Y/N)";
        cin >> c;
        if (c=='n' || c=='N')
        {
            break;
        }
        }
        fclose (fp);
        break;

    case 'b':
        fp = fopen ("employee.txt", "rb");
        while (fread (&E, sizeof (E), 1, fp))
        {
```

```
while(1)
 {
   cout << "\n Employee ID: " << E.emp-ID;
   cout << "\n Employee name: " << E.emp-name;
   cout << "\n Employee salary: " << E.salary;
   break;
  }
 }
 fclose(fp);
 break;

case 'c':
   exit(0);

default:
   cout << "\n Invalid choice.";
 }
}
return 0;
}
```

---

(2)

```
#include <iostream>
#include <set>
using namespace std;

int getDATA()
{
   int n;
   set<int> s
```

```
class SET
{
    public:
    set<int> s;
    int x, n, min; int *p;
    int num[50]

    int getDATA()
    {
        cout << "\n Enter the no. of data you
             want to enter : ";
        cin >> n;

        for(int i=0; i<n; i++)
        {
            cout << "\n Enter value for " << i+1 << ":";
            ~~cin >> s.insert(i);~~
            ~~cout~~ cin >> num[i];

            num[i] = x;
            s.insert(x);
        }
        cout << " Size of set : " << s.size();
        ~~min = num[0];~~
        ~~for(int i; i<s.size(); i++)~~
        {
            ~~p = i~~
            if(num[i] < min)
            {
                min = ~~num~~ num[i];
            }
```

```
p = &num[0];
min = *p;
while (*p)
  {
      if( num> (*p))
      {
          num = *p;
      }
      p++;
  }

return *p;
 }
};

int main() {
{
   SET obj;
   obj. getDATA();
   cout << " In Smallest number in dataset is: " << *p;
   return 0;
}
```

(3)

```
#include <iostream>
#include <exception>
using namespace std;

void Rethrow()
{   int num;
    try {
        cout << "Enter number less than 4digits: ";
        cin >> num;

        if (num < -9999 || num > 9999)
        {
         throw num;
        }
    }
    catch (int num)
    {
    cout << "Your number is greater than 4
              digits!" << num;
    }
}
int main()
{
    try
    {
      Rethrow();
    }
    catch (const char *)
    { cout << "Caugth exception inside main";
```

```
    }
    return 0;
}
```