SVKM's NMIMS University Mukesh Patel School of Technology Management & Engineering

COURSE: Programming for Problem Solving

SVKM's NMIMS

Mukesh Patel School of Technology Management and Engineering, Mumbai



Programming for Problem Solving (Exp 2-1)

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Date of Experiment: 03/10/2022	Date of Submission: 03/10/2022

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Task 3:

```
#include <iostream>
using namespace std;
int main()
  char emp_number[8];
  char emp name[25];
  char emp_address[50];
  char emp_mobile[10];
  cout<<"\n Enter the Employee Number: ";
  cin>>emp_number;
  cout<<"\n Enter the Employee Name: ";
  cin.getline(emp name, 25);
  cin.getline(emp_name, 25);
  cout<<"\n Enter the Employee Address: ";
  cin.getline(emp address, 50);
  cout<<"\n Enter the Contact Number: ";
  cin>>emp mobile;
  cout<<"\n Employee Number: "<<emp number<<endl;
  cout<<"\n Employee Name: "<<emp_name<<endl;</pre>
  cout<<"\n Employee Address: "<<emp_address<<endl;</pre>
  cout<<"\n Employee Contact Number: "<<emp mobile<<endl;</pre>
  return 0;
}
```

Task 4:

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

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```
int main()
{
    int x,y,z,a,b;
    cout<<"\nEnter the value of x: ";
    cin>>x;
    cout<<"\nEnter the value of y: ";
    cin>>y;
    cout<<"\nEnter the value of z: ";
    cin>>z;
    a = (x*x)+(2*x*x*x)*(2*x);
    b = x+(y*y)+(z*z*z);
    cout<<"\na = "<<a<<"\nb = "<<b;
    return 0;
}</pre>
```

Task 5:

```
#include <iostream>
using namespace std;
int main()
{
  char rollno[8];
  float msub1,msub2,msub3,msub4,msub5,msum,score;
  cout<<"\nEnter Roll No: ";</pre>
  cin>>rollno;
  cout<<"\nEnter Marks in Subject 1: ";</pre>
  cin>>msub1;
  cout<<"\nEnter Marks in Subject 2: ";</pre>
  cin>>msub2;
  cout<<"\nEnter Marks in Subject 3: ";</pre>
  cin>>msub3;
  cout<<"\nEnter Marks in Subject 4: ";</pre>
  cin>>msub4;
```

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```
cout<<"\nEnter Marks in Subject 5: ";
cin>>msub5;
msum = msub1+msub2+msub3+msub4+msub5;
score = (msum/500)*100;
cout<<"\nRoll No: "<<rollno<<"\nPercentage Score:
"<<score<<"%"<<endl;
return 0;
}</pre>
```

Task 6:

Missing Semicolon in Line 6 and 7

Task 7:

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

int main()
{
    int num_1,num_2;
    cout<<"\nEnter Number 1: ";
    cin>>num_1;
    cout<<"\nEnter Number 2: ";
    cin>>num_2;
    cout<<"\n\nBefore Swapping \nNumber 1: "<<num_1<<"\nNumber 2: "<<num_2<<endl;
    num_1 = num_1+num_2;
    num_2 = num_1-num_2;
    num_1 = num_1-num_1-num_2;
    num_1 = num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-num_1-nu
```

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```
cout<<"\nAfter Swapping \nNumber 1: "<<num_1<<"\nNumber 2:
"<<num_2<<endl;
return 0;
}</pre>
```

Homework Questions:

1.

Algorithm:

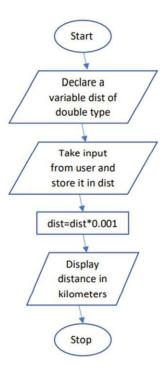
Step1	Start
Step2	Declare a variable dist of double type
Step3	Take input from user and store it in dist
Step4	dist=dist*0.001
Step5	Display distance in kilometers
Step6	Stop

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Flowchart:



Code:

```
#include <iostream>
using namespace std;
int main() {
  float dist_m;
  cout << "Enter the distance (m): ";
  cin >> dist_m;
  cout << "\nDistance in Km: " << dist_m * 0.001;
  return 0;
}</pre>
```

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```
#include <iostream>
using namespace std;
int main() {
  float bs, hra, da, gs;

  cout << "Enter basic salary: ";
  cin >> bs;

  hra = bs * (5 / 100.00);
  da = bs * (15 / 100.00);

  gs = bs + hra + da;

  cout << "\nGross Salary: " << gs;
  return 0;
}</pre>
```