Q1. D

Q2. A

Q3. D

Q4. C

**CODING SECTION**

***PROBLEM STATEMENT-1(10-marks)***

**#include <iostream>**

**using namespace std;**

**class Dimensions**

**{**

**protected:**

**int l,b,h;**

**float c,f;**

**public:**

**void input()**

**{**

**cin>>l;**

**cin>>b;**

**cin>>h;**

**cin>>c;**

**cin>>f;**

**}**

**};**

class Four\_walls : public virtual Dimensions

{

public:

int area\_w()

{

int area = 2\*h\*(l+b);

return area;

}

};

class Ceiling : public virtual Dimensions

{

public:

int area\_c()

{

int area = l\*b;

return area;

}

};

class Floor: public virtual Dimensions

{

public:

int area\_f()

{

int area=l\*b;

return area;

}

};

class Cost : public Four\_walls, public Ceiling,public Floor

{

public:

int total\_area()

{

int area = area\_w()+area\_c();

return area;

}

void total\_cost()

{

int cost = c\*total\_area()+f\*area\_f();

cout<<cost;

}

};

int main()

{

Cost c;

c.input();

c.total\_cost();

return 0;

}

***PROBLEM STATEMENT-1(10-marks)***

#include<iostream>

using namespace std;

class person

{

protected:

char name[20];

int age;

public:

person(char \*n,int a)

{

strcpy(name,n);

age=a;

}

void showperson()

{

cout<<"Name: "<<name;

cout<<"\nAge: "<<age;

}

};

class Batsman:public person

{

protected:

int run,odi,half;

float avg,strike;

public:

Batsman(char \*n,int a,int o,int h,int r,float av,float s):person(n,a)

{

run=r;

odi=o;

half=h;

avg=av;

strike=s;

}

void show()

{

showperson();

cout<<"\nODI Played: "<<odi;

cout<<"\nHalf Centuries made: "<<half;

cout<<"\nRuns made: "<<run;

cout<<"\nBatting Average: "<<avg;

cout<<"\nStrike Rate: "<<strike;

}

};

int main()

{

char name[20];

int age;

int run,odi,half;

float avg,strike;

cin.getline(name,20);

cin>>age;

cin>>odi;

cin>>half;

cin>>run;

cin>>avg;

cin>>strike;

Batsman b(name,age,odi,half,run,avg,strike);

b.show();

return 0;

}