Name: Atul Kumas Reg. No: 12102801.
Roll No: RD2110B79 Question No: 01
Course Code: CAP445 SET-"E"

B-01 emplement the concept of classes to create a function that takes the number of wins, draws and losses and calculates the number of points a rootball team has obtained so ras.

· voins get 3 points · draws get 1 points

· Losses get o points

Boln:- #include Liostream? using namespace std; class Points

public:
int win, loose, draw;
void take_input()

cout</"Enter no. of matches won by the team:" < cendl; cin>> win;

```
Name-Atul Kumas Reg. No.: 12102801
Roll No.: RD2110B79 Question No.: 01
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couter"Enter no. of matches Loose
           by the team: "<< endl;
 cin>> loose;
coul << "Enter no. of matches drawn
           by the team: " << end!;
 cin>> draw;
 void total_score()
  cout<<" Total Points: "<<3 * win+0 * loose
                            + 1 * draw;
 3
3;
 int main()
   Points P1;
   p1. take_input();
   p1. total_score();
return 0;
```

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```
Enter number of matches won by the team:

3
Enter number of matches loose by the team:

2
Enter number of matches drawn by the team:

3
Total Points: 12
...Program finished with exit code 0
Press ENTER to exit console.
```

Name: Atul Kumar Reg. No.: 12102801 Roll No: RD2110B79 Question No.: 02 Course Code: CAP445 SET-"E"

6°-02 Create a class product; take appropriate data members and function which calculate net profit for a product after selling the product.

Sol":- #Include < iostream?

using namespace std;

class Product
{

public:

float cp, sp, profit, loss;

void take-input()
{

cout << "Enter Cost Price: Rs.";

cin >> cp;

cout << "Enter selling Price: Rs.";

cin >> sp;

cin >> sp;

}

```
Name: Atul Kumar Reg. No: 12102801
ROLL No: RD2110B79 Question No.: 02
Course Code: CAP445
 void display()
    if (CP)SP)
      cout << "Loss of Rs. "<< cp-sp (cendl);
    elseif (cp(sp)
      cout(" Profit of Rs." < (sp-cp ( Lendl;
     else
      cout << "No Profit, No Loss" << endl;
3;
int moun()
  Product P1;
 p1. take-input ();
 p1. display();
   return 0;
```

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```
Enter Cost Price :Rs. 100
Enter Selling Price :Rs. 120
Profit of :Rs. 20

...Program finished with exit code 0
Press ENTER to exit console.
```

Name: Atul Kumar Reg. No.: 12102801

ROLL No: RD2110B79 Question No.: 03

Course code: CAP445 SET-"E"

32-03 Suppose there is Bank and there ase different branches in Jalandhar, Phaquasa, Hoshiarpur etc. President of the Bank want to know about the detail of the branch managers who has more working experience. Write a program using the concept of inheritance.

Soln: # include (iostream) using namespace stal;

class Jalandhar { public:

int exp_jal;

void mng_jal() {

cout ("Enter experience (2n Year) of Manager of Jalandhar Branch:";

cin>>exp-jal;

Reg. No: 12102801 Name: Atul Kumar ROLL No: RD2110B79 Question No: 03 SET-"E Course Code: CAP 445 class Phagwara public: int exp-pag void mng-phg() { cout << "Enter experience (2n year) of Manager of Phagwara Branch:"; ein>>exp-phg, 3; class Hoshiarpur public: intexp-Brp; void mng-Arpl) { coute(" Enter experience (en year) of Manager of Hoshiarpus Branch:"; cin>> exp-Arp;

30

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. 4

Name: Atul Kumar Roll No: RD2110B79 Course Code: CAP 445 Reg. No: 12102801 Buestion No: 03 SET-"E"

```
class President: public Jalandhar, public
        Phagwara, public Hoshiarpus {
    public:
        void display() {
        if (exp_jal>exp_phg 22 exp_jal>exp_hrp)
cout <<" Manager of Jalandhar Branch Raving
        more experiance than others. "every";
    else if (exp-phg > exp-jal 22 exp-phg> exp-hp)
could "Manager of Phagwar Branch Baving
       more experience than others." << endl;
    else
could "Manager of Hoshiarpus Branch
      having more experience than other." every;
 int main () {
  President P1;
  P1. mng-jall);
  P1. mng-phg();
  p1. mng_Brp()
  retush o;
                                  Page 7 of 7
```

V X 3

input

Enter experience(In Year) of Manager of Jalandhar Branch: 10 Enter experience(In Year) of Manager of Phagwara Branch: 07 Enter experience(In Year) of Manager of Hoshiarpur Branch: 5 Manager of Jalandhar Branch having more experience than others.

...Program finished with exit code 0
Press ENTER to exit console.