DATE - 21 Sep 2022 -

DS LAB -

PROGRAM - Doubly Linked List with Student Details

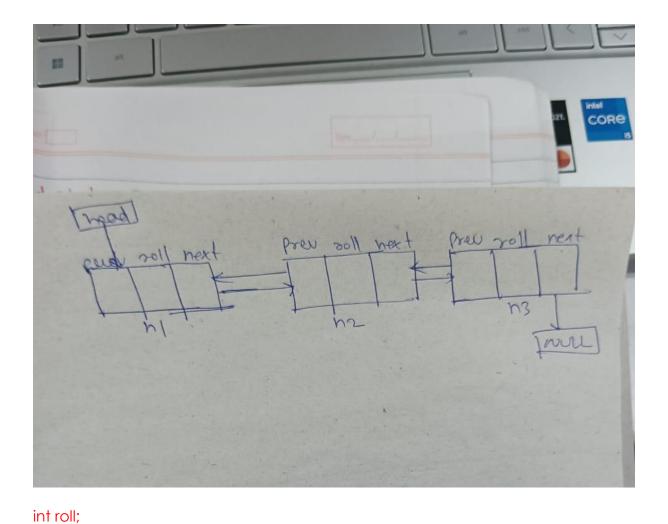
Name = Abhishek RAJPUT

Section = 3A(CS)

Roll Number = 2100290120007

Create the node with following fields:

```
Stouct students }
      Stouct Students * pace student;
       illos tri
       stoud students * nort-student;
  int main() $
       Struct students M- 12, 13;
        Struct students thead, 4 temp;
        head = 2nli
        N). pre_student = NULL;
         M30011=37
         h1. nextstudent= 2/2;
          72.0011=9;
          n2. pare _sterdard = 2n1;
          n2. next-student = 2n3
          m3-seall = 10%
           ns. pre-student = 2 h2;
            n3, next-student = NULL;
            temp=head;
            while (temp) = mui) }
             (out << temp > soll;
           temp= temp-rnexti
```



```
int date;
int month;
int year;
node *next_student;.
// Program is:
#include <stdio.h>

struct students
{
    struct students *pre_student;
    int roll;
```

```
};
int main() {
  struct students n1,n2,n3;
  struct students *head,*temp;
  head = &n1;
  n1.pre_student = NULL;
  n1.roll = 3;
  n1.next_student = &n2;
  n2.pre_student = &n1;
  n2.roll = 9;
  n2.next_student = &n3;
  n3.pre_student = &n2;
  n3.roll = 20;
  n3.next_student = NULL;
  temp = head;
  while( temp!= NULL)
  {
    cout<<temp->roll<<endl;
    temp= temp->next_student;
  }
  return 0;
```

struct students \*next\_student;

```
SE C Run
nain.c
                                                                            Output
                                                                          /tmp/Mx3PIJ9foz.o
1 //Aayush kumar shrivastava(2100290120003)
2 //polynomial using linked list
                                                                           roll:3 date:27 month:1 year:2005
                                                                           roll:9 date:15 month:11 year:2002
3 #include <stdio.h>
                                                                           roll:20 date:2 month:6 year:2003
5 struct students
      struct students *pre_student;
      int roll;
      int date;
     int month;
      int year;
      struct students *next_student;
5 };
5 * int main() {
      struct students n1,n2,n3;
      struct students *head,*temp;
      head = &n1;
      n1.pre_student = NULL;
      n1.roll = 3;
      n1.date = 27;
```

```
Run
                                                                        Output
main.c
40
       nz.pre_student - απι,
                                                                      ▲ /tmp/Mx3PIJ9foz.o
27
       n2.roll = 9;
                                                                       roll:3 date:27 month:1 year:2005
       n2.date = 15;
28
                                                                       roll:9 date:15 month:11 year:2002
29
       n2.month = 11;
                                                                       roll:20 date:2 month:6 year:2003
30
      n2.year = 2002;
      n2.next_student = &n3;
31
       n3.pre_student = &n2;
32
33
      n3.roll = 20;
34
      n3.date = 2;
35
       n3.month = 06;
36
      n3.year = 2003;
      n3.next_student = NULL;
37
38
       temp = head;
39
      while( temp!= NULL)
40 -
     {
      printf("roll:%d\tdate:%d\tmonth:%d\tyear:%d\t\n",temp->roll,temp
41
             ->date,temp->month,temp->year);
42
        temp= temp->next_student;
43
44
45
       return 0;
46 }
```