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**Practical Name:- Write a program to Implementation Queue(Dynamic form) Batch:B3**

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include<iostream>

using namespace std;

class Queue

{

private:

int \*A;

int R;

int F;

public:

Queue()

{

R = -1;

cout<<"\n Enter The length of Queue :";

cin>>F;

A = new int[F];

}

void insert();

void deletee();

void display();

~Queue()

{

delete[] A;

}

};

void Queue::insert()

{

int item;

if(R == F - 1)

{

cout<<"\n OVERFLOW";

}

else

{

cout<<"\n Enter the item :";

cin>>item;

R++;

A[R] = item;

cout<<"\n---------------------------------------------------------------";

}

}

void Queue::deletee()

{

if(R == -1)

{

cout<<"\n Queue Is Empty...";

return;

}

else

{

int s = A[0];

cout<<"\n Deleted Element Is :"<<s;

for(int i = 0; i < R; i++)

{

A[i] = A[i + 1];

}

R--;

}

}

void Queue::display()

{

if(R == -1)

{

cout<<"\n Queue Is Empty....";

return;

}

else

{

for(int i = 0; i <= R; i++)

{

cout<<"\n"<<A[i];

}

}

}

int main()

{

Queue q;

int ch;

cout<<"\n\t MENU ";

cout<<"\n1.insert \n2.delete \n3.display \n4.Exit";

cout<<"\n-------------------------------------------";

do

{

cout<<"\n Enter Your Choice :";

cin>>ch;

switch(ch)

{

case 1 : q.insert(); break;

case 2 : q.deletee(); break;

case 3 : q.display(); break;

default : cout<<"\n Wrong Choice \n THANK YOU !";

}

} while(ch <= 3);

return 0;

}

OUTPUT

Enter The length of Queue :3

MENU

1.insert

2.delete

3.display

4.Exit

-------------------------------------------

Enter Your Choice :1

Enter the item :43

---------------------------------------------------------------

Enter Your Choice :1

Enter the item :45

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Enter Your Choice :1

Enter the item :56

---------------------------------------------------------------

Enter Your Choice :3

43

45

56

Enter Your Choice :2

Deleted Element Is :43