week 4program

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# include <stdio.h>
# include <conio.h>
# include <stdlib.h>
# define Max_Size 100

int main () {
int item, choice, i;
int arr_queue [Max_Size];
int rear = 0;
int front = 0;
int exit = 1;
printf ("\n Simple Queue Enample - Array");
do {
 printf ("\n\n Queue Main menu");
 printf ("n1. Insert \n2. Remove \n3. Display
          \n others to exit");
 printf ("\n Enter your choic: ");
 scanf ("%d", &choice);
 switch (choice) {
case 1:
   if (rear == Max-Size)
   printf ("\n## Queue Reached Max!!");
else {
   printf ("\n Enter the value to be Insert:");
  scanf ("%d", & Item);
  printf ("\n## position : %d, Inseret value: %d",
                rear + 1, item);
```

```
arr_queue [rear++] = item;
}
break;
Case 2:
if (front == rear)
printf ("\n ## Queue is empty!");
else
{
printf ("\n ## position : %d, Remove value
  : %d", front, arr_queue [front]);
front++;
}
break;
Case 3;
printf ("\n ## Queue Size : %d", rear);
for (i=front; i<rear; i++)
printf ("\n ## position : %d, value : %d", i,
        arr_queue [i]);
break;
default:
exit=0;
break;
}
} while (exit);
return 0;
}
```