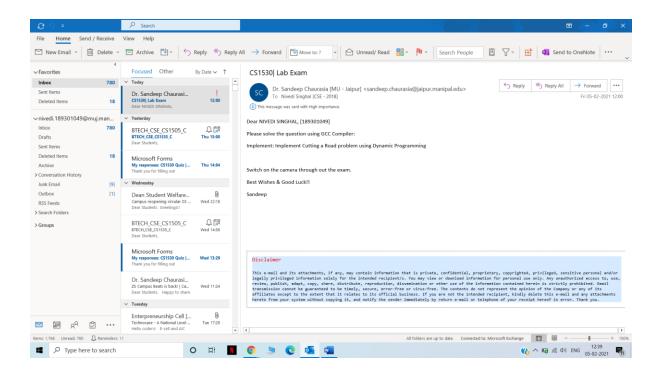
DAA ETE LAB

NIVEDI SINGHAL

189301049

CSE C



Source Code

```
#include <stdio.h>
```

```
#define MAX(x, y) (((x) > (y)) ? (x) : (y))
```

```
const int temp = 1000;
```

int arr[5+1];

```
void fill() {
```

int i;

$$arr[0] = 0;$$

```
for(i=1; i<=5; i++) {
```

```
arr[i] = -1*temp;
}
}
int road(int c[], int n) {
 if (arr[n] >= 0) {
  return arr[n];
 }
 int maximum_revenue = -1*temp;
 int i;
 for(i=1; i<=n; i++) {
  maximum_revenue = MAX(maximum_revenue, c[i] + road(c, n-i));
 }
 arr[n] = maximum_revenue;
 return arr[n];
}
int main() {
 fill();
 int price[] = {0, 10, 24, 30, 40, 45};
 printf("%d\n", road(price, 5));
 return 0;
}
```

OUTPUT:

