

WIPRO NLTH CODING ANSWERS – 29TH JAN MORNING SLOT

1. ALGORITHM ON TOY MANUFACTURERS

```
#include<stdio.h>

void mergeSort(int A[],int lb,int up)
{
    int mid;
    if(lb<up){
        mid = (lb+up)/2;
        mergeSort(A,lb,mid);
        mergeSort(A,mid+1,up);
        merge(A,lb,mid,up);
    }
}

void merge(int A[],int lb,int mid, int up)
{
    int i,j,k,b[up];
    i = lb;
    j = mid+1;
    k = lb;
    while(i<=mid&& j<=up)
    {
        if(A[i]<=A[j])
        {
            b[k] = A[i];
            i++;
            k++;
        }
    }
```

```
else
{
b[k] = A[j];
j++;
k++;
}
}
if (i>mid)
{
while(j<=up)
{
b[k] = A[j];
j++;
k++;
}
}
else
{
while(i<=mid)
{
b[k] = A[i];
i++;
k++;
}
}
for(i= lb;i<=up;i++)
{
A[i]=b[i];
}
```

```

}
int main(){
int n,m;
scanf("%d %d",&n,&m);
int arr[n];
int i;
for(i = 0;i<n;i++){
scanf("%d",&arr[i]);
}
mergeSort(arr,0,n-1);
printf("%d",arr[m-1]);
}

```

2. E COMMERCE CODE

```

#include<stdio.h>

void main() {
int n;
scanf("%d", &n);
if (n >= 30 && n <= 50)
printf("D");
elseif(n >= 51 && n <= 60)
printf("C");
elseif(n >= 61 && n <= 80)
printf("B");
elseif(n >= 81 && n <= 100)
printf("A")
}

```

3. Algorithm to find the group for a given book sale count

```
int main()
{
    int no;
    scanf("%d",&no);
    if(no>=81 && no <= 100){
        printf("A");
    }
    else if(no>=61 && no <= 80){
        printf("B");
    }
    else if(no>=51 && no <= 60){
        printf("C");
    }
    else if(no>=31 && no <= 50){
        printf("D");
    }
    else if(no>=1 && no <= 100){
        printf("A");
    }
}
```

4. kth shortest execution time

```
#include <stdio.h>

int main()
{
    int n,k,j,temp;
```

```

scanf("%d %d",&n,&k);
int a[n],i;
for(i=0;i<n;i++)
scanf("%d",&a[i]);
for(i=0;i<n;i++)
{
for(j=i+1;j<n;j++)
{
if(a[i]>a[j])
{
temp=a[i];
a[i]=a[j];
a[j]=temp;
}
}
}
printf("%d",a[k-1]);
return 0;
}

```

5. BANK TRANSCATION - DEBIT CARD

```

#include <bits/stdc++.h>

using namespace std;

bool isCredit(char c){
return (c=='a' || c=='A' || c=='e' || c=='E' || c=='i' || c=='I' || c=='u' || c=='U' || c=='o' || c=='O');
}

int func(string str){

```

```
int n=str.length();
int count=0;
for(int i=1;i<n;i++){
if(!isCredit(str[i]) && isCredit(str[i-1]))
count++;
}
return count;
}

int main(){
string str;
cin>>str;
cout<<func(str);
}
```