MAINAK CHATTOPADHYAY Operating Systems Lab 2 21BAI1217

# **QUESTION 1**

#### Code

```
#include<stdio.h>
int main(){
int n1,n2,n3;
printf("Enter three numbers \n");
scanf("%d",&n1);
scanf("%d",&n2);
scanf("%d",&n3);
printf("The sum of three numbers is %d \n",(n1+n2+n3));
}
```

```
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$ ./a.out
Enter three numbers
1092
1947
4557
The sum of three numbers is 7596
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$
```

### **QUESTION 2**

#### Code

```
#include<stdio.h>
int main(){
int arr[]={2000,500,200,100,50,20,10,5,2,1};
int amt;
printf("Enter the amount \n");
scanf("%d",&amt);
if(amt < 100000){
for(int i=0;i<10;i++){
   if (amt >= arr[i]){
      printf(" The number of %d notes is %d \n",arr[i],(amt/arr[i]));
      amt=amt%arr[i];
   }
}
```

```
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$ gcc notes.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$ ./a.out
Enter the amount
27893
The number of 2000 notes is 13
The number of 500 notes is 3
The number of 200 notes is 1
The number of 100 notes is 1
The number of 50 notes is 1
The number of 50 notes is 2
The number of 2 notes is 1
The number of 1 notes is 1
The number of 1 notes is 1
Ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$
```

# **QUESTION 3**

## Code

```
#include<stdio.h>
#include<string.h>
int main(){
  char k[20];
  printf("Enter the number");
  scanf("%s",k);
  int c=0;
  for(int i=0;i<strlen(k);i++){
   if(k[i]=='0'){
    c++; }
}
  printf("The number of 0's is %d \n",c);
}</pre>
```

```
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$ gcc q3.c ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$ ./a.out Enter the number100298300 The number of 0's is 4 ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$
```

# **QUESTION 4**

## Code

```
#include<stdio.h>
#include<string.h>
int main(){
char ch;
printf("Enter the digit \n");
scanf("%c",&ch);
char k[20];
printf("Enter the number \n");
scanf("%s",k);
int c=0;
for(int i=0;i<strlen(k);i++){</pre>
if(k[i]==ch){}
C++; }
}
printf("The number of %c is %d \n",ch,c);
}
```

```
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BAI1217$ ./a.out
Enter the digit
3
Enter the number
13334983
The number of 3 is 4
```