

CMR Engineering College

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2022-26_I_CS_B_C Programming Lab

C PROGRAMMING LAB_ADDITIONAL EXERCISE_BASICS

Attempt : 1
Total Mark : 60
Marks Obtained : 60

Section 1 : CODING

1. Alice and Bob were confused about the ASCII values of a character, so Alice decided to write a program to find the ASCII value of the given character.

Answer

```
#include <stdio.h>
int main(){
    char a;
    scanf("%c",&a);
    printf("%d",a);
}
```

Status : Correct

Marks : 10/10

2. John's new robot in his Grocery Shop has attracted many customers. Now he plans to make the robot to wish a customized welcome message for his regular customers. Write a program to help him in the task.

Answer

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

```
int main(){
    char name[50];
    scanf("%s",name);
    printf("Hi %s, Welcome to John's Grocery Shop",name);
}
```

Status : Correct

Marks : 10/10

3. John faced a difficulty in calculating the purchase value of same product with varied quantity. So he tries to transfer this multiplication job to his robot.

Help John by writing a program to the robot to reduce his difficulty.

Answer

```
#include<stdio.h>
int main(){
    int a,b;
    scanf("%d %d",&a,&b);
    printf("%d",a*b);
}
```

Status : Correct

Marks : 10/10

4. John made a huge profit out of his grocery shop. But, his profit got reduced due to his wrong calculation in providing the balance amount to his customers.

Once he started to realize his mistakes, he is trying to make out this work with his robot. So that his profit is safe.

He finds you to provide a programming solution to his problem. Get purchase value and cash given by the customer and calculate the balance amount.

Answer

```
#include<stdio.h>
int main(){
    int a,b;
```

```
scanf("%d %d",&a,&b);  
printf("%d",b-a);  
}
```

Status : Correct

Marks : 10/10

5. Number of events

"Pine Tree" Company has signed up a big time Event Management deal from the Rotary Youth Club for a Trade Fair organized at Codissia Complex, wherein all startup companies in the Software industry are demonstrating their latest products and services and meet with industry partners and Customers.

Proton Event Management System has to be modified to write a piece of code that will get the input of the number of events to be hosted for the Fair at Codissia from its users and display the same. Help the company to accomplish the requirement.

Answer

```
#include<stdio.h>  
int main(){  
    int a;  
    scanf("%d",&a);  
    printf("Number of events hosted in Codissia is %d",a);  
}
```

Status : Correct

Marks : 10/10

6. Tickets sold for Charity Event

HelpIndia, a famous NGO has been selective in identifying events to raise funds for charity. Suzanne is a volunteer from the NGO who was selling tickets to the public for the charity event. She sold 'X' more adult tickets than children tickets and she sold twice as many senior tickets as children tickets. Assume that an adult ticket costs 5 Rs, children ticket costs 2 Rs and senior ticket costs 3 Rs.

Suzanne made 'Y' dollars from ticket sales. Find the number of adult tickets, children tickets, and senior tickets sold.

Answer

```
#include<stdio.h>
int main(){
    int X,Y;
    scanf("%d %d",&X,&Y);
    int childtick=(Y-5*X)/13;
    int adulttick=childtick+X;
    int seniotick=2*childtick;
    printf("Number of children tickets sold : %d\n",childtick);
    printf("Number of adult tickets sold : %d\n",adulttick);
    printf("Number of senior tickets sold : %d",seniotick);
}
```

Status : Correct**Marks : 10/10**