

CMR Engineering College

Name :Heman Babu
Roll no:228r1a62b1
Branch :CMREC
Batch :2022-26

Email :228r1a62b1@cmrec.ac.in
Phone :7989053640
Department :CS
Degree :B.Tech CS

2022-26_I_CS_B_C Programming Lab

C PROGRAMMING_AUTOMATA FIX_BASICS AND DATATYPES

Attempt : 1
Total Mark : 100
Marks Obtained : 100

Section 1 : Automata Fix

1. Write a program to print hello world without using semicolon.

Answer

```
#include<stdio.h>
int main()
{
if printf("hello world")){}
}
```

Status : Correct

Marks : 10/10

2. Raveena wants to welcome everyone who attends the Inauguration Ceremony. Given the name of the person, she needs to print the following message.

"Hi (name), welcome to the inauguration ceremony"

Answer

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

```

int main()
{
    char name[25];
    scanf("%s",name);

    printf("Hi %s, welcome to the inauguration ceremony",name);
}

```

Status : Correct

Marks : 10/10

3. Write a program to print the ASCII value of a given character.

Answer

```

// You are using GCC
#include <stdio.h>
int main()
{
    char c;
    scanf("%c",&c);
    printf("%d",c);
    return 0;
}

```

Status : Correct

Marks : 10/10

4. Write a simple code by declaring three variables where two variables of integer type and one variable is float. Add the two integer variables and store the result in the remaining variable(float).

Answer

```

// You are using GCC
#include<stdio.h>
int main()
{
    int n1,n2;
    float sum=0;
    scanf("%d %d",&n1,&n2);
    sum=n1+n2;
    printf("%.2f",sum);
}

```

```
}
```

Status : Correct

Marks : 10/10

5. Welcome Message

"Pine Tree" is a recently launched startup Event Management company. The company gained a good reputation within a short span because of its highly reliable service delivery.

Nikhil, the founder of this company wished to take the company's services to the next step and decided to design an Event Management System that would let its Customers plan and host events seamlessly via an online platform. As a part of this requirement, Nikhil wanted to write a piece of code for his company's Proton Event Management System that will welcome all the Customers who are using it. Help Nikhil on the task.

Answer

```
// You are using GCC
#include<stdio.h>
int main(){
    printf("Welcome to Proton Event Management System");
    return 0;
}
```

Status : Correct

Marks : 10/10

6. Write a program that accepts a sentence as input and prints the same.

Answer

```
// You are using GCC
#include<stdio.h>
int main()
{
    char str[100];
    scanf("%[^\n]c",str);
    printf("%s",str);
}
```

```
    return 0;
}
```

Status : Correct

Marks : 10/10

7. Write a program to check whether the given value is positive or negative.

Note: use if-else.

Answer

```
// You are using GCC
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if(n>0) {
        printf("Positive");
    }
    else if(n<0) {
        printf("Negative");
    }
    else {
        printf("Neither case");
    }
}
```

Status : Correct

Marks : 10/10

8. Write a program to find the area of a rectangle.

Answer

```
#include<stdio.h>
int main()
{
    int l,b,area;
    scanf("%d %d",&l,&b);
    area=l*b;
```

```
    printf("%d",area);  
}
```

Status : Correct

Marks : 10/10

9. Write a program to obtain and display the newly joined student name and age detail.

Answer

```
#include<stdio.h>  
int main()  
{  
    int age;  
    char name[50];  
  
    scanf("%s %d",name, &age);  
    printf("%s age is %d",name,age);  
}
```

Status : Correct

Marks : 10/10

10. Write a program to print the size of int, float, double, and char.

Answer

```
#include<stdio.h>  
int main() {  
    int intType;  
    float floatType;  
    double doubleType;  
    char charType;  
  
    // You are using GCC  
    printf("Size of int: %d bytes\n", sizeof(intType));  
    printf("Size of float: %d bytes\n",sizeof(floatType));  
    printf("Size of double: %d bytes\n",sizeof(doubleType));  
    printf("Size of char: %d byte",sizeof(charType));  
  
    return 0;  
}
```

Status : Correct

Marks : 10/10