

CMR Engineering College

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2022-26_I_CS_B_C Programming Lab

C PROGRAMMING LAB_EXERCISE_BASICS

Attempt : 1
Total Mark : 150
Marks Obtained : 150

Section 1 : CODING

1. Write a program to convert Celsius to Fahrenheit formula, $F = 1.8 C + 32$.

Answer

```
#include<stdio.h>

int main(){
    float c;
    scanf("%f",&c);
    printf("%.2f",1.8*c+32);
}
```

Status : Correct

Marks : 10/10

2. Write a program to multiply two floating point numbers.

Answer

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

```
scanf("%f %f",&a,&b);  
printf("%.2f",a*b);  
}
```

Status : Correct

Marks : 10/10

3. 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

4. Write a program that accepts a user name and password as input and prints the same.

Answer

```
#include<stdio.h>  
  
int main(){  
    char name[50], pass[50];  
  
    scanf("%s %s",name,pass);  
    printf("%s\t%s",name,pass);  
}
```

Status : Correct

Marks : 10/10

5. 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("%[^\\n]c\\n%d",name,&age);
    scanf("%[^\\n]c",name);
    scanf("\\n");
    scanf("%d",&age);
    printf("%s age is %d",name,age);
}

```

Status : Correct

Marks : 10/10

6. Write a program to display a string in the following format.

eg: Input

Hi

Welcome

Output

Hi and Welcome

Answer

```

#include<stdio.h>
int main(){
    char l1[200],l2[200];
    scanf("%[^\\n]c",l1);
    scanf("\\n");
    scanf("%[^\\n]c",l2);
    printf("%s and %s",l1,l2);
}

```

Status : Correct

Marks : 10/10

7. Write a program to multiply two integers

Answer

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

Status : Correct

Marks : 10/10

8. Write a program that accepts a char, int and float as input and prints the same.

Answer

```
#include<stdio.h>
int main(){
    char a;
    int b;
    float c;
    scanf("%c %d %f",&a, &b, &c);
    printf("%c %d %.2f",a, b, c);
}
```

Status : Correct

Marks : 10/10

9. 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

10. Write a program to print the ASCII value of a character

Answer

```
#include<stdio.h>
int main(){
    char a;
    scanf("%c",&a);
    printf("%d",a);
    return 0;
}
```

Status : Correct

Marks : 10/10

11. 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;

    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

12. Write a program that accepts two integer as input and prints their sum.

Answer

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

Status : Correct

Marks : 10/10

13. Write a program to calculate the simple interest

Answer

```
#include<stdio.h>
int main(){
    int pamount,n,rate;
    scanf("%d %d %d",&pamount,&n,&rate);
    float result=pamount*rate/100*n;
    printf("%.2f",result);
}
```

Status : Correct

Marks : 10/10

14. 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

15. Write a program to compute the quotient and remainder for integer

values

Answer

```
#include<stdio.h>
int main(){
    int dividend,divisor;
    scanf("%d %d",&dividend,&divisor);
    printf("Quotient = %d\n",dividend/divisor);
    printf("Remainder = %d",dividend%divisor);
}
```

Status : Correct

Marks : 10/10