

Date: 16-09-2022

ASSIGNMENT

SUBMITTED TO: SIR SHOAIB KHAN

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ROLL NO: 92P-9002

SECTION: BS (AI)

DATE: 16-09-2022

Date: 16-09-2022

1

1. Write a C program to find maximum b/w two numbers.

```
#include <stdio.h>
int main() {
    int num1, num2;
    printf("Enter First Number : ");
    scanf("%d", &num1);
    printf("Enter Second Number : ");
    scanf("%d", &num2);
    if (num1 > num2) {
        printf("%d is Maximum : ", num1);
    } else {
        printf("%d is Maximum : ", num2);
    }
    return 0;
}
```

Date: 16-09-2022

2. Write a C program to check whether a number is divisible by 5 & 11 or not.

```
#include <stdio.h>
int main () {
    int num;
    printf("Enter a number : ");
    scanf("%d", &num);
    if ((num % 5 == 0) && (num % 11 == 0))
    {
        printf("Number is divisible by 5 & 11.");
    }
    else
    {
        printf("Number is not divisible.");
    }
    return 0;
}
```

Date: 16-09-2022

3

3. Write a C program to check whether a number is negative, positive or zero.

```
#include <stdio.h>
int main () {
    int number1;
    printf ("Enter a number : ");
    scanf ("%d", &number1);
    if (number1 > 0) {
        printf ("Number %d is positive.", number1);
    }
    else if (number1 < 0) {
        printf ("Number %d is negative.", number1);
    }
    else {
        printf ("Number is equal to 0.");
    }
    return 0;
}
```

Date: 16-09-2022

4. Write a C program to check whether a number is even or odd.

```
#include <stdio.h>
int main ()
{
    int num;

    printf("Enter any number to check even or odd : ");
    scanf("%d", &num);
    if (num % 2 == 0)
    {
        printf("Number is Even. ");
    }
    else
    {
        printf("Number is odd. ");
    }
    return 0;
}
```

Date: 16-09-2022

5. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. calculate percentage and grade according to following.

Percentage $\geq 90\%$: Grade A

Percentage $\geq 80\%$: Grade B

Percentage $\geq 70\%$: Grade C

Percentage $\geq 60\%$: Grade D

Percentage $\geq 40\%$: Grade E

Percentage $< 40\%$: Grade F

Program :

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

```
int main() {
```

```
    int phy, chem, bio, maths, computer;
```

```
    float percentage;
```

```
    printf("Enter five subjects marks : ");
```

```
    scanf("%d %d %d %d %d", &phy, &chem,
```

```
        &bio, &maths, &computer);
```

```
    percentage = (phy + chem + bio + maths +  
        computer) / 5.0;
```

Date: 16-09-2022

6

```
printf("Percentage = %.2f", percentage);
if (percentage >= 90)
{
    printf("Grade A");
}
else if (percentage >= 80)
{
    printf("Grade B");
}
else if (percentage >= 70)
{
    printf("Grade C");
}
else if (percentage >= 60)
{
    printf("Grade D");
}
else if (percentage >= 40)
{
    printf("Grade E");
}
else
{
    printf("Grade F");
}
return 0;
```

Date: 16-09-2022

7

6. Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition.

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 100 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill.

Program.

```
#include <stdio.h>
int main ()
{
    int unit;
    float amount, total_amount, surcharge;
    printf ("Enter total units consumed : ");
    scanf ("%d", &unit);
    if (unit <= 50)
    {
        amount = unit * 0.50;
    }
```

Date: 16-09-2022

8

else if (unit <= 150)

{

 amount = 25 + ((unit - 50) * 0.75);

}

else if (unit <= 250)

{

 amount = 100 + ((unit - 150) * 1.20);

}

else

{

 amount = 220 + ((unit - 250) * 1.50);

}

surcharge = amount * 0.20;

total_amount = amount + surcharge;

printf ("Electricity Bill = Rs. %.2f, total_amount);

return 0;

}