**LAB TASK 4 CODES**

**Q1.**

# include<stdio.h>

int main()

{

int nots,t\_shirt=500,tpots;

int nofs,formal\_shirt=1000,tpofs;

int noww,wrist\_watch=500,tpoww;

int dis, total\_number,customer\_provided,change;

float total\_amount,dis\_amount;

printf("No of T-shirts ");

scanf("%d", &nots);

tpots=nots\*t\_shirt;

printf("Total price of T-Shirt, %d\n", tpots);

printf("No of Formal Shirts ");

scanf("%d", &nofs);

tpofs=nofs\*formal\_shirt;

printf("Total price of Formal Shirt, %d\n", tpofs);

printf("No of Wrist Watch ");

scanf("%d", &noww);

tpoww=noww\*wrist\_watch;

printf("Total price of Wrist Watch, %d\n", tpoww);

total\_number=nots+nofs+noww;

printf("Total No of Items %d\n", total\_number);

total\_amount=tpots+tpofs+tpoww;

printf("Total amount is: %f\n", total\_amount);

printf("Customer Provided ");

scanf("%d", &customer\_provided);

printf("%d Customer Provided\n", customer\_provided);

if(total\_amount > 3000)

{

dis=10;

dis\_amount=(total\_amount)-total\_amount\*dis/100;

printf("The discounted amount is: %f\n", dis\_amount );

change=customer\_provided-dis\_amount;

printf("Customer Receice: %d", change);

}

else

{

change=customer\_provided-total\_amount;

printf("Change %d", change);

}

return 0;

}

**Q2.**

#include <stdio.h>

int main()

{

char ch;

printf("Enter any character : ");

scanf("%c", &ch);

if (isalpha(ch))

{

printf("%c is an Alphabet\n", ch);

}

else if (isdigit(ch))

{

printf("%c is a Digit\n", ch);

}

else

printf("%c is a Special Character\n", ch);

return 0;

}

**Q3.**

# include<stdio.h>

int main()

{

int age;

printf("ENTER THE AGE: ");

scanf("%d", &age);

printf("%d is the age\n", age);

if( age <= 11)

{

printf("FARE IS RS 20\n");

}

else if(age > 11 || age < 65)

{

printf("FARE IS RS 50\n");

}

else if(age >= 65)

{

printf("FARE IS RS 30\n");

}

else

printf("AGE IS NOT CORRECT");

return 0;

}

**Q4.**

# include<stdio.h>

int main()

{

int x,y;

printf("ENTER X ");

scanf("%d", &x);

printf("ENTERED VALUE OF X IS: %d\n", x);

printf("ENTER Y ");

scanf("%d", &y);

printf("ENTERED VALUE OF Y IS: %d\n", y);

if(x==y)

{

printf("GIVEN NUMBERS ARE EQUAL\n");

}

else

{

printf("GIVEN NUMBERS ARE NOT EQUAL\n");

}

if(x>y)

{

printf("X IS GREATER THAN Y\n");

}

else

{

printf("Y is GREATER THAN X");

}

return 0;

}

**Q5.**

# include<stdio.h>

int main()

{

float weight,height,bmi;

printf("Enter height of the person in meters ");

scanf("%f", &height);

printf("Enter weight of the person in kilogram ");

scanf("%f", &weight);

bmi=(weight\*703)/(height\*height);

printf("The BMI is: %f\n", bmi);

if(bmi < 15)

{

printf("BMI SHOWS STARVATION");

}

else if(bmi < 18.5)

{

printf("BMI SHOWS UNDERWEIGHT");

}

else if(bmi >= 18.5 && bmi < 25)

{

printf("BMI SHOWS IDEAL");

}

else if(bmi >= 25 && bmi < 30)

{

printf("BMI SHOWS OVERWEIGHT");

}

else if(bmi > 40)

{

printf("BMI SHOWS MORBIDLY OBESE");

}

return 0;

}

**Q6.**

# include<stdio.h>

int main()

{

int your\_age,sis\_age;

printf("ENTER YOUR AGE AND SISTER'S AGE ");

scanf("%d %d", &your\_age, &sis\_age);

printf("YOUR AGE: %d years and SISTER'S AGE: %d years\n", your\_age,sis\_age);

if(your\_age > sis\_age)

{

printf("YOU ARE OLDER THAN YOUR SISTER\n");

}

else

{

printf("YOUR SISTER IS OLDER THAN YOU");

}

return 0;

}